

Assignment

Date _____ Period _____

Convert each degree measure into radians.

1) 225°

2) 510°

3) 300°

4) -225°

5) 330°

6) -300°

7) 150°

8) -550°

9) -75°

10) 490°

11) 270°

12) -120°

13) 515°

14) 315°

15) -315°

16) 60°

17) 120°

18) -1050°

19) 350°

20) 45°

21) 960°

22) 370°

23) 130°

24) 230°

25) 80°

26) -330°

27) 240°

28) -570°

29) 160°

30) -255°

Convert each radian measure into degrees.

31) $\frac{17\pi}{18}$

32) $\frac{31\pi}{36}$

33) $\frac{19\pi}{6}$

34) $\frac{19\pi}{9}$

35) $\frac{15\pi}{4}$

36) $-\frac{13\pi}{12}$

37) $-\frac{3\pi}{4}$

38) $\frac{5\pi}{6}$

39) $\frac{5\pi}{3}$

40) $-\frac{7\pi}{6}$

41) $-\frac{13\pi}{36}$

42) $\frac{10\pi}{3}$

43) $\frac{\pi}{9}$

44) $\frac{5\pi}{12}$

45) $\frac{\pi}{6}$

46) $\frac{7\pi}{3}$

47) $-\frac{\pi}{6}$

48) $\frac{71\pi}{12}$

49) $-\frac{7\pi}{12}$

50) $-\frac{35\pi}{18}$

51) $\frac{2\pi}{3}$

52) $-\frac{17\pi}{12}$

53) $\frac{7\pi}{6}$

54) $\frac{4\pi}{3}$

55) $\frac{\pi}{4}$

56) $-\frac{9\pi}{4}$

57) $-\frac{14\pi}{3}$

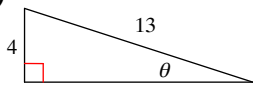
58) $\frac{17\pi}{12}$

$$59) -\frac{4\pi}{3}$$

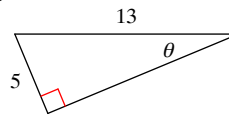
$$60) \frac{5\pi}{4}$$

Find the value of the trig function indicated.

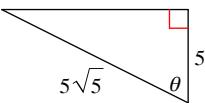
$$61) \cos \theta$$



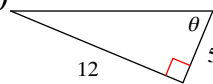
$$62) \tan \theta$$



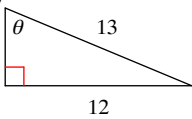
$$63) \sin \theta$$



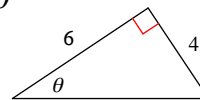
$$64) \tan \theta$$



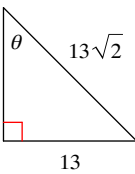
$$65) \csc \theta$$



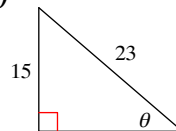
$$66) \csc \theta$$



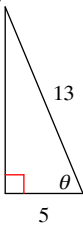
$$67) \tan \theta$$



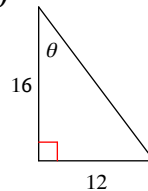
$$68) \cot \theta$$



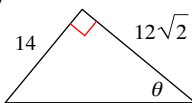
$$69) \csc \theta$$



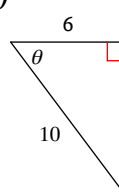
$$70) \tan \theta$$



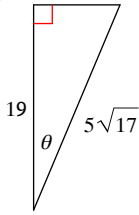
$$71) \csc \theta$$



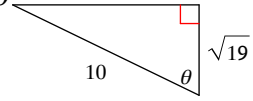
$$72) \cot \theta$$



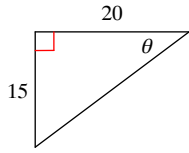
73) $\tan \theta$



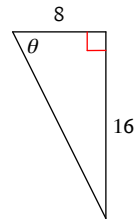
74) $\tan \theta$



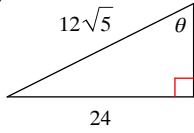
75) $\sec \theta$



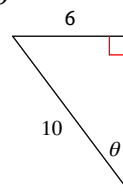
76) $\tan \theta$



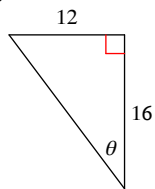
77) $\csc \theta$



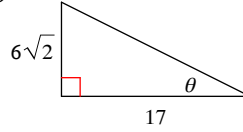
78) $\cot \theta$



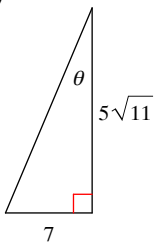
79) $\cos \theta$



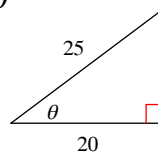
80) $\sin \theta$



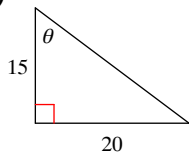
81) $\tan \theta$



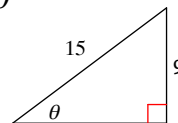
82) $\sin \theta$



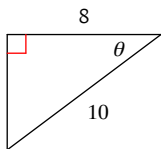
83) $\csc \theta$



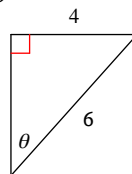
84) $\cot \theta$



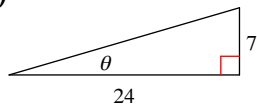
85) $\sec \theta$



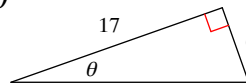
86) $\sin \theta$



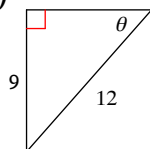
87) $\cos \theta$



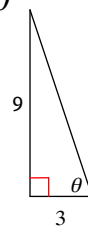
88) $\sin \theta$



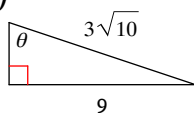
89) $\cos \theta$



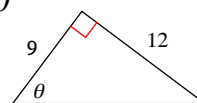
90) $\cot \theta$



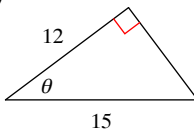
91) $\cos \theta$



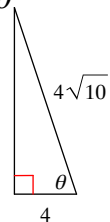
92) $\tan \theta$



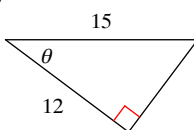
93) $\cot \theta$



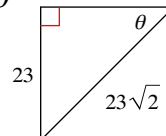
94) $\csc \theta$



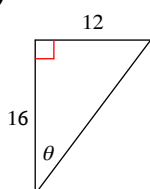
95) $\tan \theta$



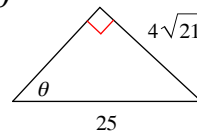
96) $\tan \theta$



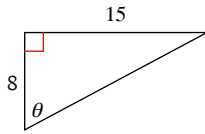
97) $\csc \theta$



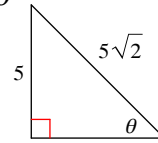
98) $\cot \theta$



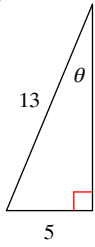
99) $\sec \theta$



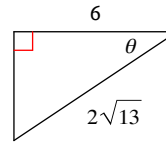
100) $\sin \theta$



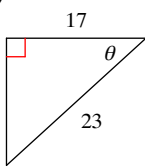
101) $\cot \theta$



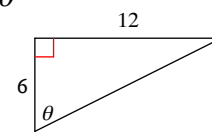
102) $\sin \theta$



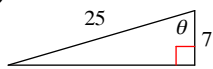
103) $\cot \theta$



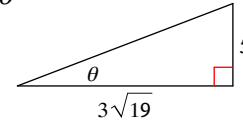
104) $\sec \theta$



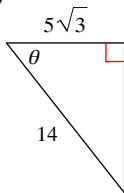
105) $\sec \theta$



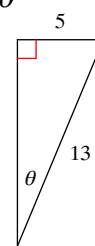
106) $\sec \theta$



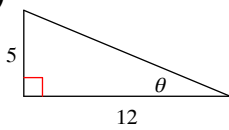
107) $\cot \theta$



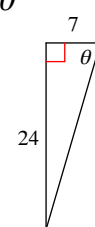
108) $\sec \theta$



109) $\cot \theta$

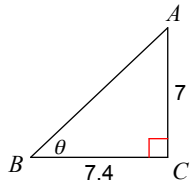


110) $\cos \theta$

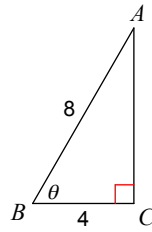


Find the measure of each angle indicated. Round to the nearest tenth.

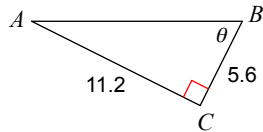
111)



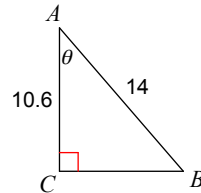
112)



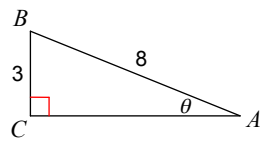
113)



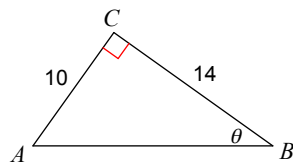
114)



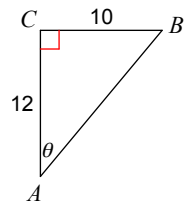
115)



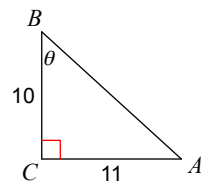
116)



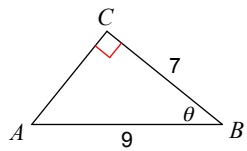
117)



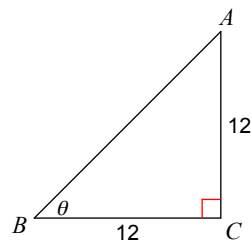
118)



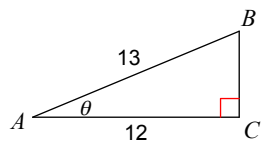
119)



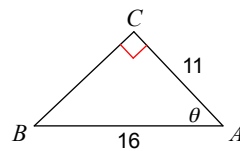
120)



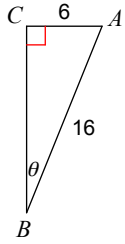
121)



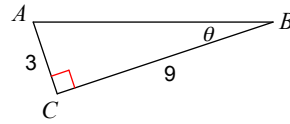
122)



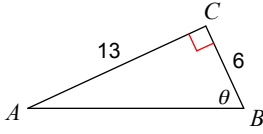
123)



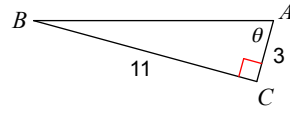
124)



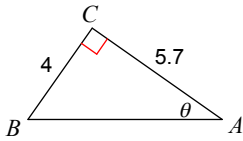
125)



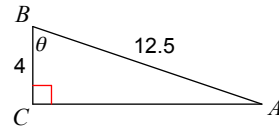
126)



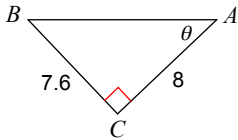
127)



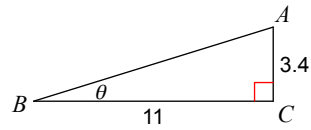
128)



129)

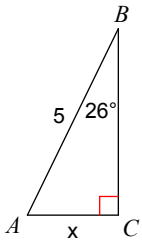


130)

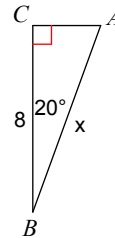


Find the measure of each side indicated. Round to the nearest tenth.

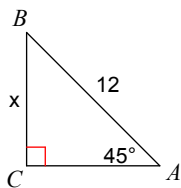
131)



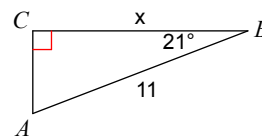
132)



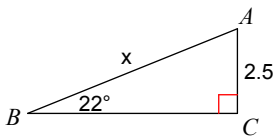
133)



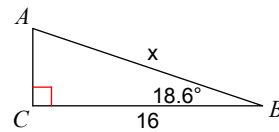
134)



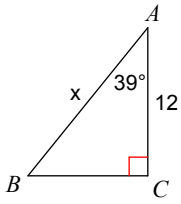
135)



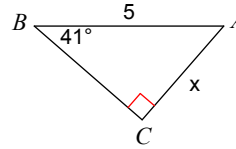
136)



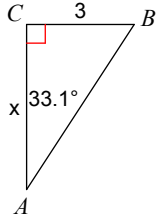
137)



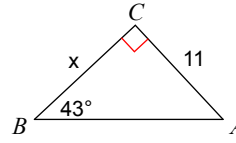
138)



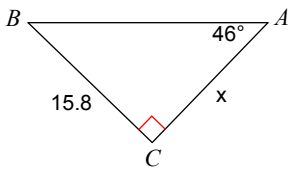
139)



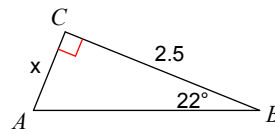
140)



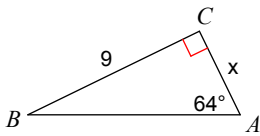
141)



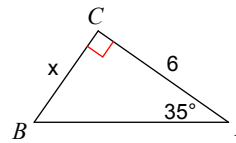
142)



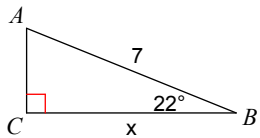
143)



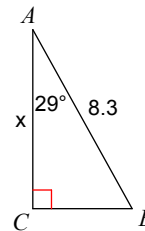
144)



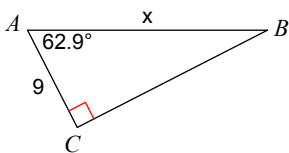
145)



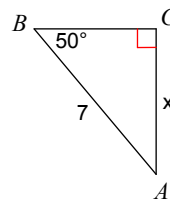
146)



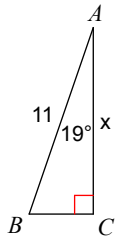
147)



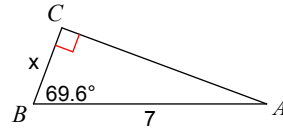
148)



149)



150)



Assignment

Date _____ Period _____

Convert each degree measure into radians.

1) $225^\circ = \frac{5\pi}{4}$

2) $510^\circ = \frac{17\pi}{6}$

3) $300^\circ = \frac{5\pi}{3}$

4) $-225^\circ = -\frac{5\pi}{4}$

5) $330^\circ = \frac{11\pi}{6}$

6) $-300^\circ = -\frac{5\pi}{3}$

7) $150^\circ = \frac{5\pi}{6}$

8) $-550^\circ = -\frac{55\pi}{18}$

9) $-75^\circ = -\frac{5\pi}{12}$

10) $490^\circ = \frac{49\pi}{18}$

11) $270^\circ = \frac{3\pi}{2}$

12) $-120^\circ = -\frac{2\pi}{3}$

13) $515^\circ = \frac{103\pi}{36}$

14) $315^\circ = \frac{7\pi}{4}$

15) $-315^\circ = -\frac{7\pi}{4}$

16) $60^\circ = \frac{\pi}{3}$

17) $120^\circ = \frac{2\pi}{3}$

18) $-1050^\circ = -\frac{35\pi}{6}$

19) $350^\circ = \frac{35\pi}{18}$

20) $45^\circ = \frac{\pi}{4}$

21) $960^\circ = \frac{16\pi}{3}$

22) $370^\circ = \frac{37\pi}{18}$

23) $130^\circ = \frac{13\pi}{18}$

24) $230^\circ = \frac{23\pi}{18}$

25) $80^\circ = \frac{4\pi}{9}$

26) $-330^\circ = -\frac{11\pi}{6}$

27) $240^\circ = \frac{4\pi}{3}$

28) $-570^\circ = -\frac{19\pi}{6}$

29) $160^\circ = \frac{8\pi}{9}$

30) $-255^\circ = -\frac{17\pi}{12}$

Convert each radian measure into degrees.

31) $\frac{17\pi}{18} = 170^\circ$

32) $\frac{31\pi}{36} = 155^\circ$

$$33) \frac{19\pi}{6}$$
$$570^\circ$$

$$35) \frac{15\pi}{4}$$
$$675^\circ$$

$$37) -\frac{3\pi}{4}$$
$$-135^\circ$$

$$39) \frac{5\pi}{3}$$
$$300^\circ$$

$$41) -\frac{13\pi}{36}$$
$$-65^\circ$$

$$43) \frac{\pi}{9}$$
$$20^\circ$$

$$45) \frac{\pi}{6}$$
$$30^\circ$$

$$47) -\frac{\pi}{6}$$
$$-30^\circ$$

$$49) -\frac{7\pi}{12}$$
$$-105^\circ$$

$$51) \frac{2\pi}{3}$$
$$120^\circ$$

$$53) \frac{7\pi}{6}$$
$$210^\circ$$

$$55) \frac{\pi}{4}$$
$$45^\circ$$

$$57) -\frac{14\pi}{3}$$
$$-840^\circ$$

$$34) \frac{19\pi}{9}$$
$$380^\circ$$

$$36) -\frac{13\pi}{12}$$
$$-195^\circ$$

$$38) \frac{5\pi}{6}$$
$$150^\circ$$

$$40) -\frac{7\pi}{6}$$
$$-210^\circ$$

$$42) \frac{10\pi}{3}$$
$$600^\circ$$

$$44) \frac{5\pi}{12}$$
$$75^\circ$$

$$46) \frac{7\pi}{3}$$
$$420^\circ$$

$$48) \frac{71\pi}{12}$$
$$1065^\circ$$

$$50) -\frac{35\pi}{18}$$
$$-350^\circ$$

$$52) -\frac{17\pi}{12}$$
$$-255^\circ$$

$$54) \frac{4\pi}{3}$$
$$240^\circ$$

$$56) -\frac{9\pi}{4}$$
$$-405^\circ$$

$$58) \frac{17\pi}{12}$$
$$255^\circ$$

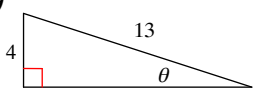
$$59) -\frac{4\pi}{3}$$

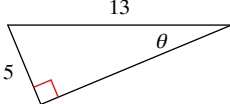
$$-240^\circ$$

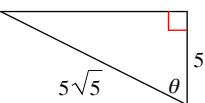
$$60) \frac{5\pi}{4}$$

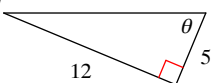
$$225^\circ$$

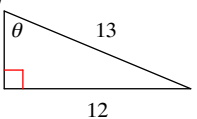
Find the value of the trig function indicated.

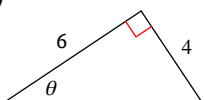
$$61) \cos \theta \quad \frac{3\sqrt{17}}{13}$$


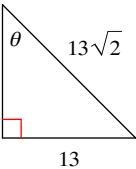
$$62) \tan \theta \quad \frac{5}{12}$$


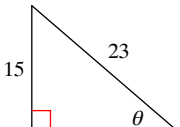
$$63) \sin \theta \quad \frac{2\sqrt{5}}{5}$$


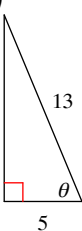
$$64) \tan \theta \quad \frac{12}{5}$$


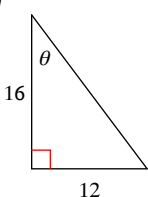
$$65) \csc \theta \quad \frac{13}{12}$$


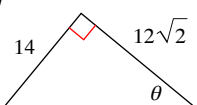
$$66) \csc \theta \quad \frac{\sqrt{13}}{2}$$


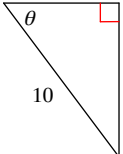
$$67) \tan \theta$$


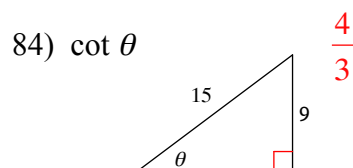
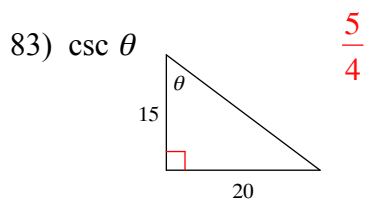
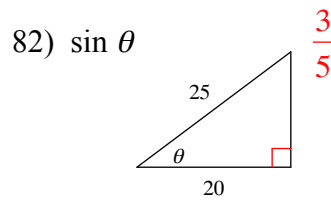
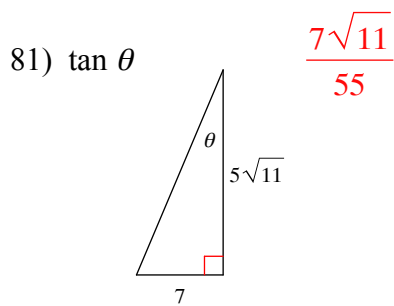
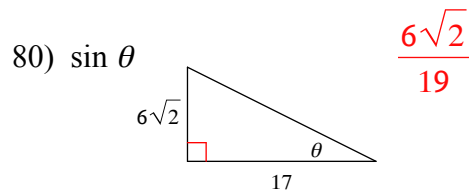
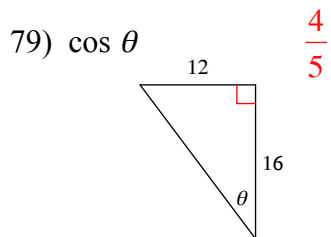
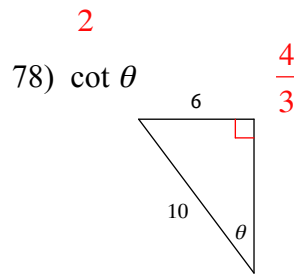
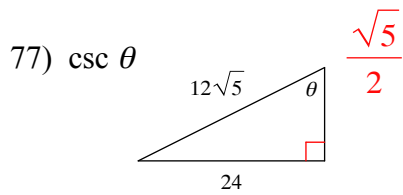
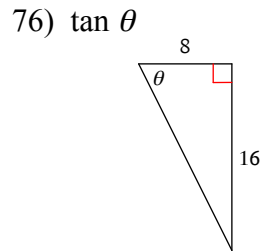
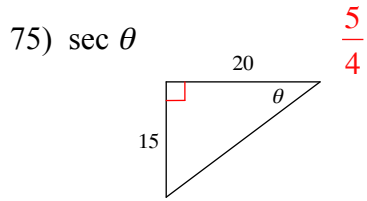
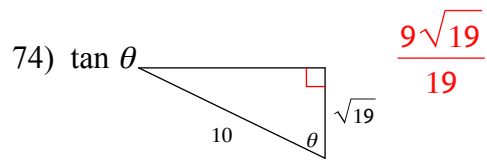
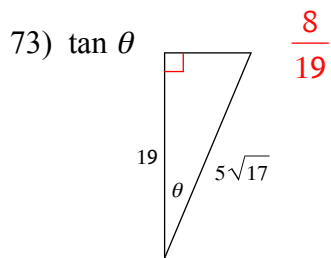
$$68) \cot \theta \quad \frac{4\sqrt{19}}{15}$$


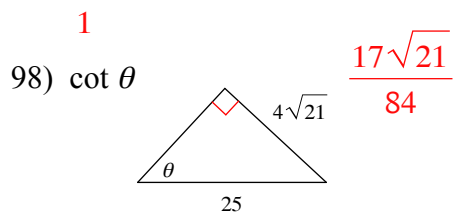
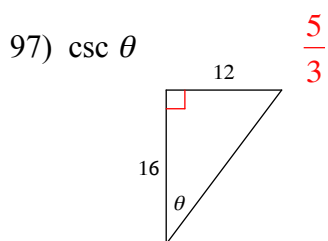
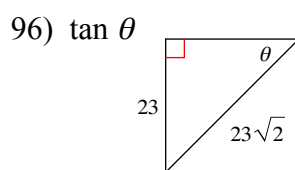
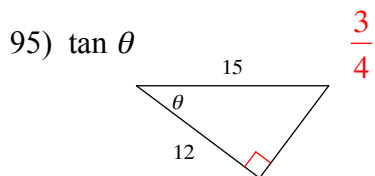
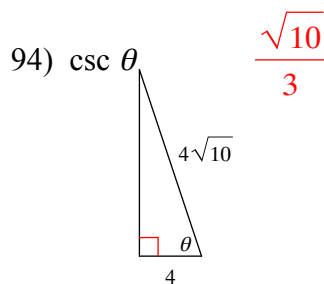
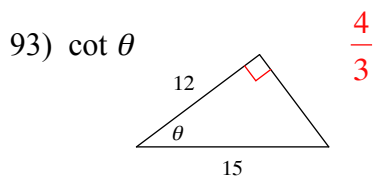
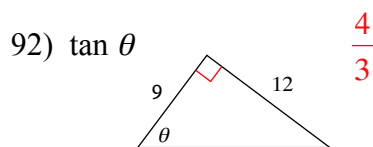
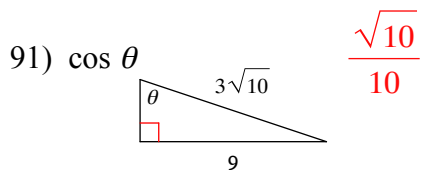
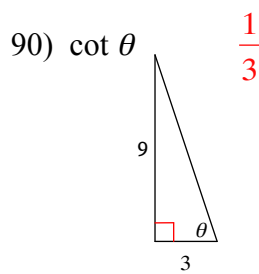
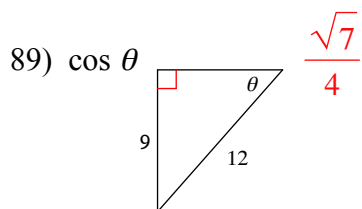
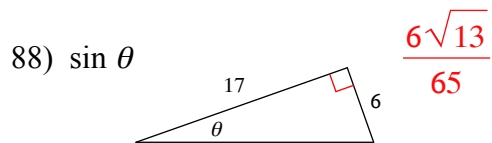
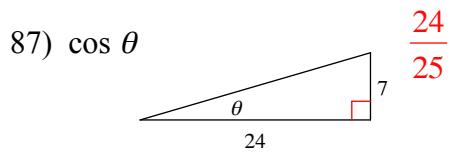
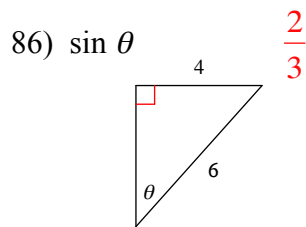
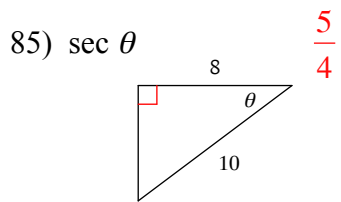
$$69) \csc \theta \quad \frac{13}{12}$$


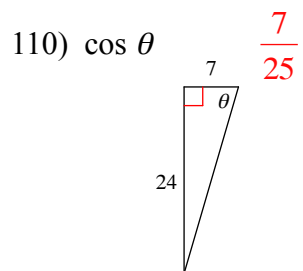
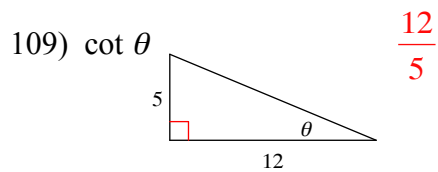
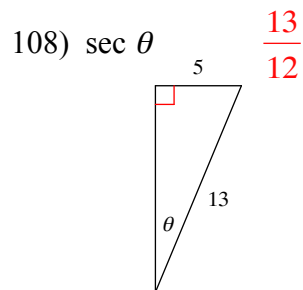
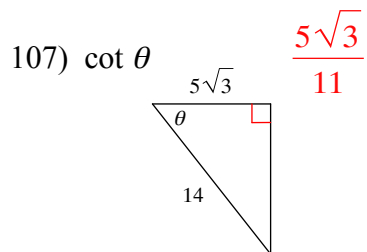
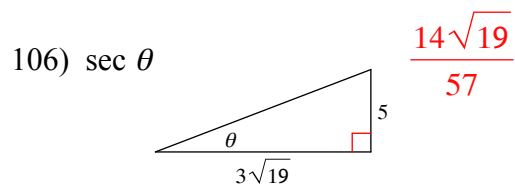
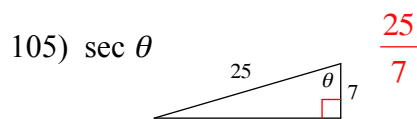
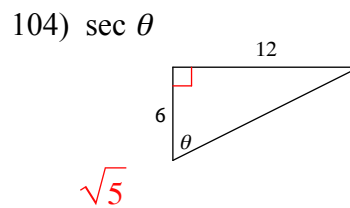
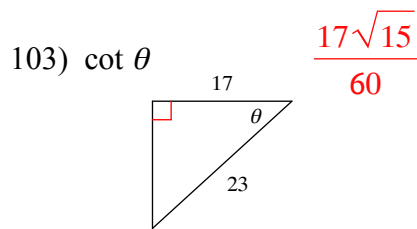
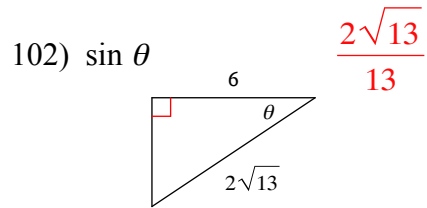
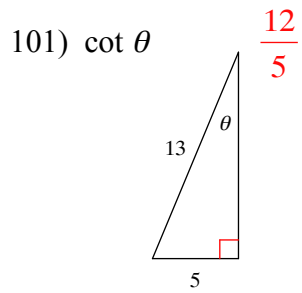
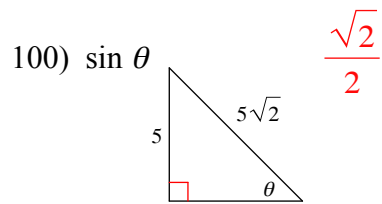
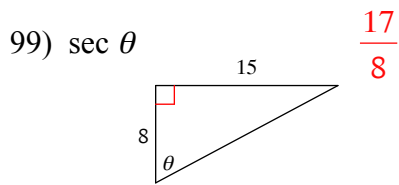
$$70) \tan \theta \quad \frac{3}{4}$$


$$71) \csc \theta \quad \frac{11}{7}$$


$$72) \cot \theta \quad \frac{3}{4}$$


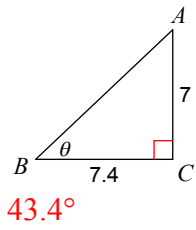




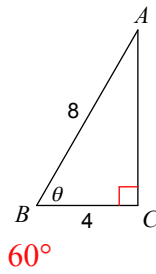


Find the measure of each angle indicated. Round to the nearest tenth.

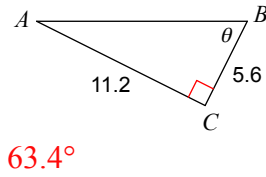
111)



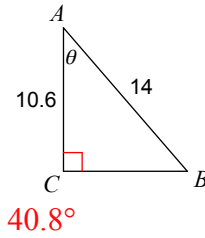
112)



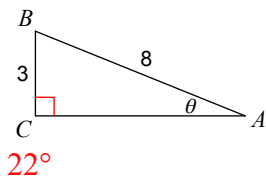
113)



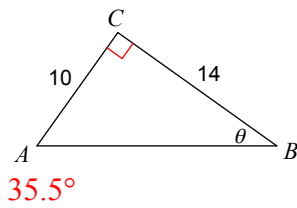
114)



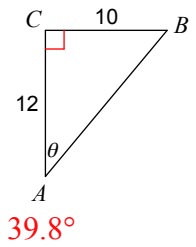
115)



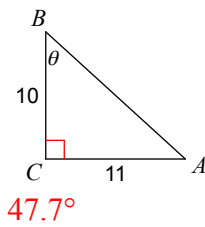
116)



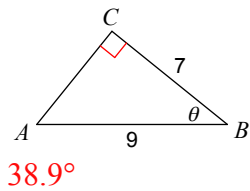
117)



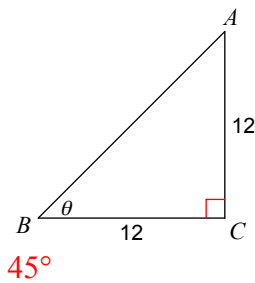
118)



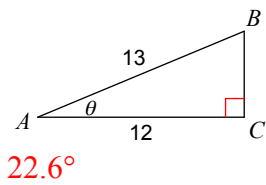
119)



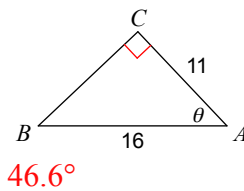
120)



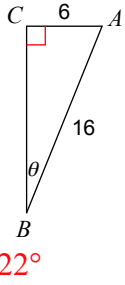
121)



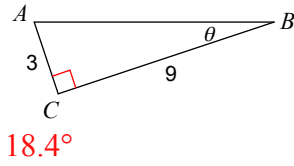
122)



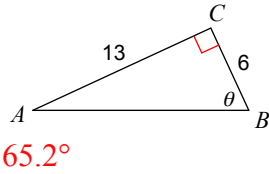
123)



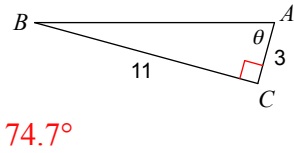
124)



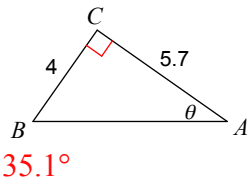
125)



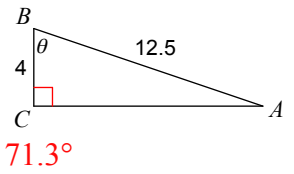
126)



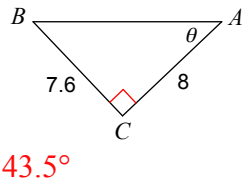
127)



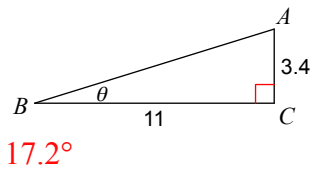
128)



129)

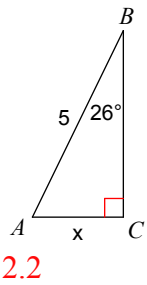


130)

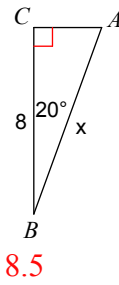


Find the measure of each side indicated. Round to the nearest tenth.

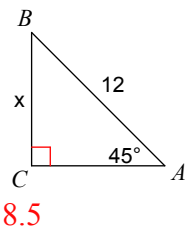
131)



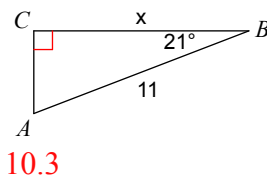
132)



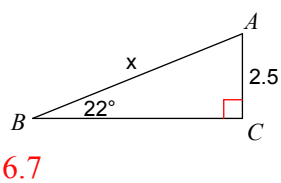
133)



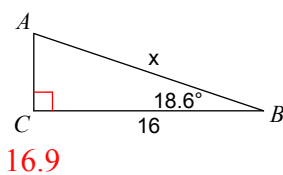
134)



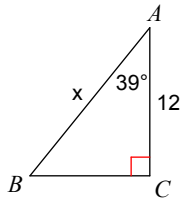
135)



136)

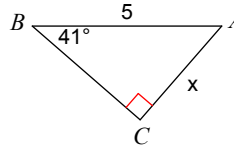


137)



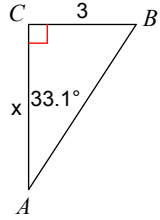
15.4

138)



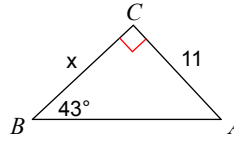
3.3

139)



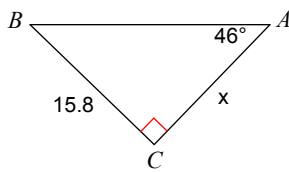
4.6

140)



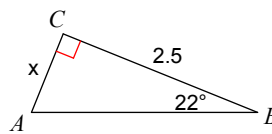
11.8

141)



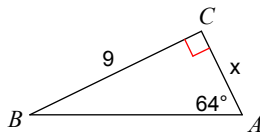
15.3

142)



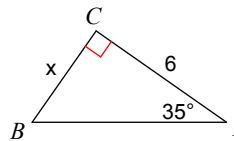
1

143)



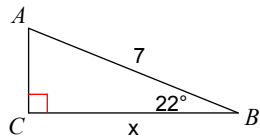
4.4

144)



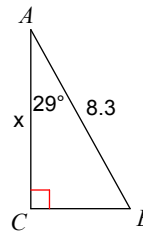
4.2

145)



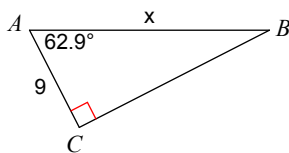
6.5

146)



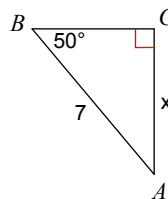
7.3

147)



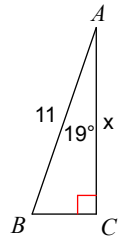
19.8

148)



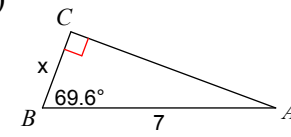
5.4

149)



10.4

150)



2.4