Algebra 2 Name_____ ID: 1

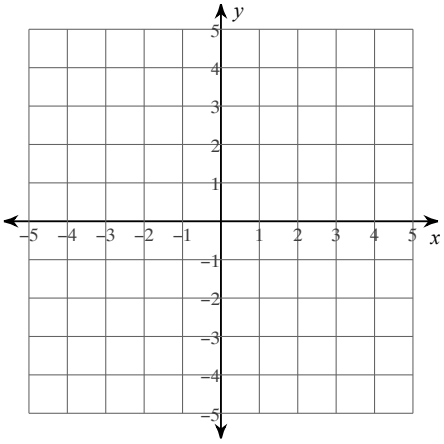
Assignment

Date_____ Period____

Solve each system by graphing.

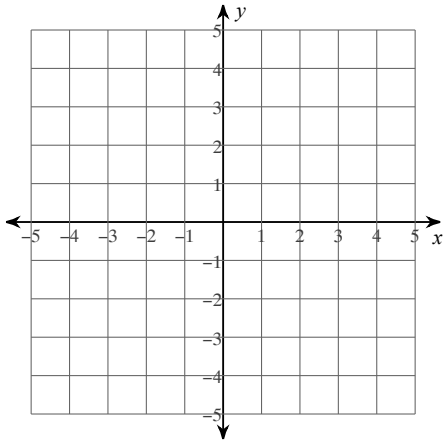
1) $y = \frac{1}{2}x - 3$

$y = \frac{5}{2}x + 1$



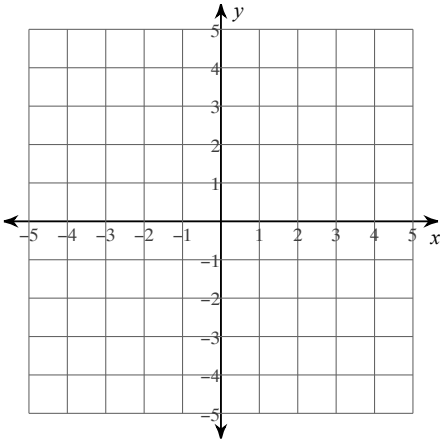
2) $y = -2x - 3$

$y = -\frac{2}{3}x + 1$



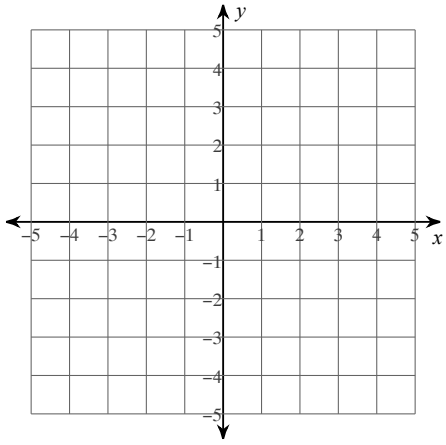
3) $y = -x - 3$

$y = -5x + 1$



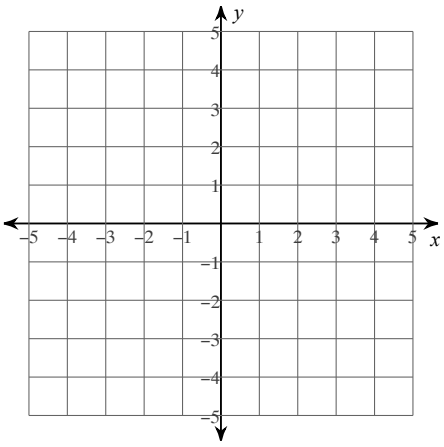
4) $y = \frac{3}{2}x - 4$

$y = -\frac{3}{2}x + 2$



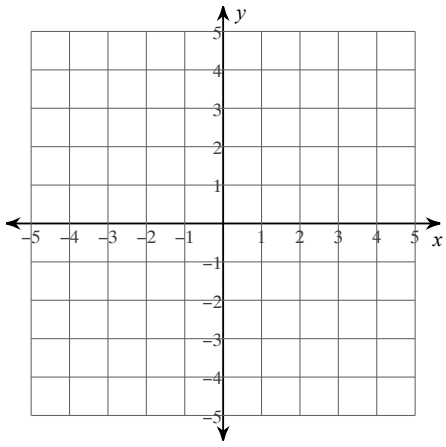
5) $y = \frac{1}{3}x + 2$

$y = -\frac{2}{3}x - 1$



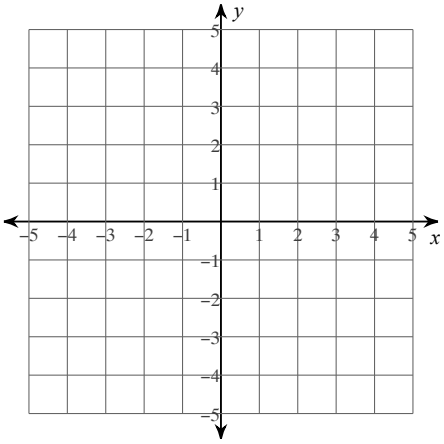
6) $y = \frac{1}{3}x - 4$

$y = -\frac{2}{3}x - 1$



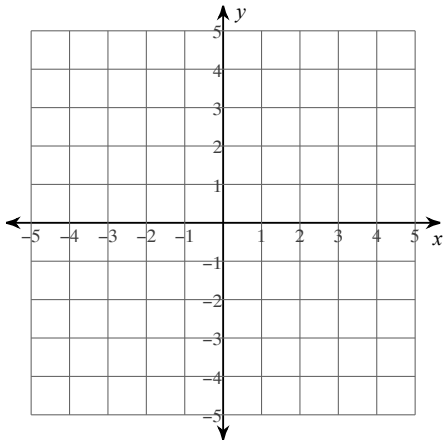
7) $y = -x - 3$

$y = x + 1$

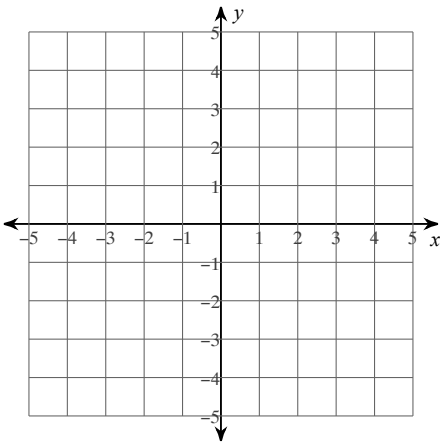


8) $y = \frac{4}{3}x - 3$

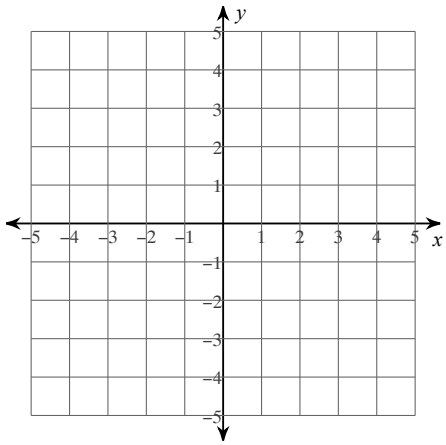
$y = -x + 4$



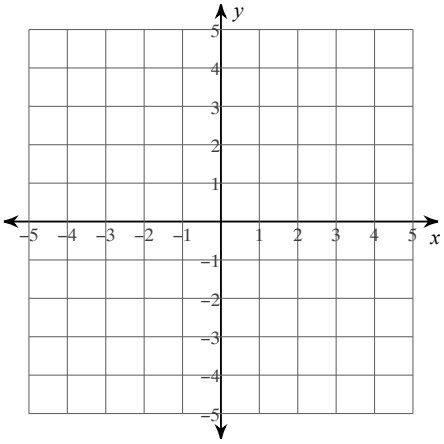
9) $y = 5x + 1$
$y = x - 3$



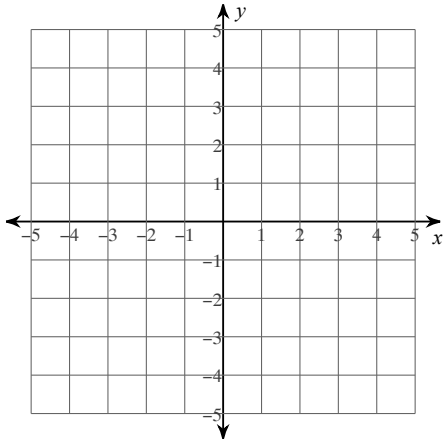
10) $y = \frac{4}{3}x + 1$
$y = \frac{1}{3}x - 2$



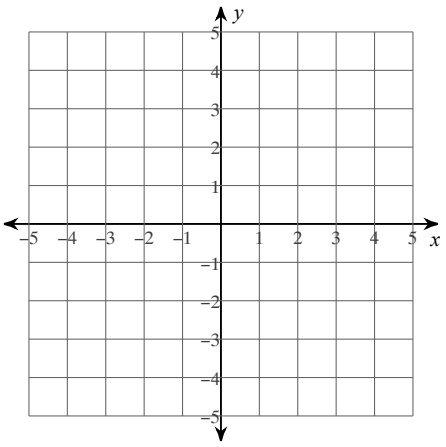
11) $x - y = 2$
$4x + y = 3$



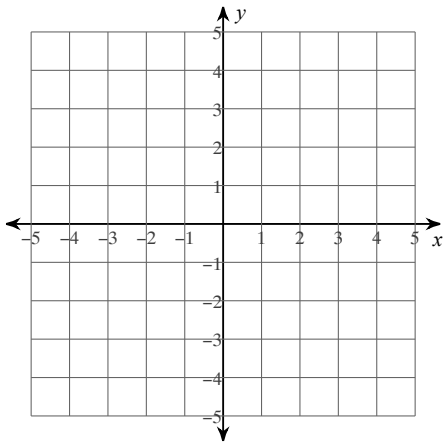
12) $x - y = -1$
$x + 3y = -9$



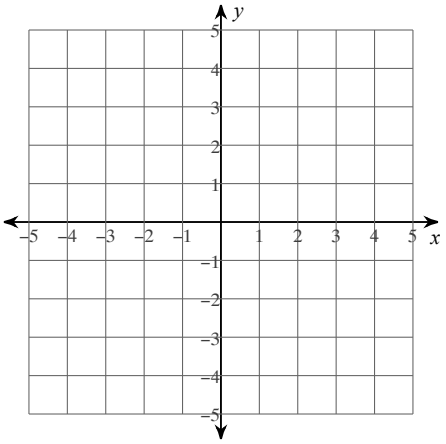
13) $5x - 3y = 12$
$x + 3y = 6$



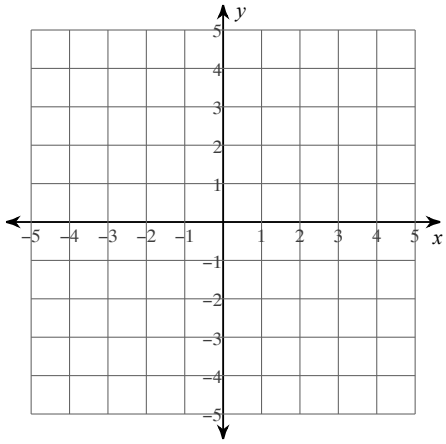
14) $x - y = -2$
$x + y = -4$



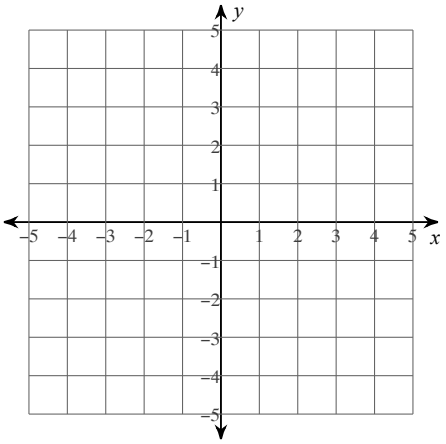
15) $5x - y = -3$
$2x + y = -4$



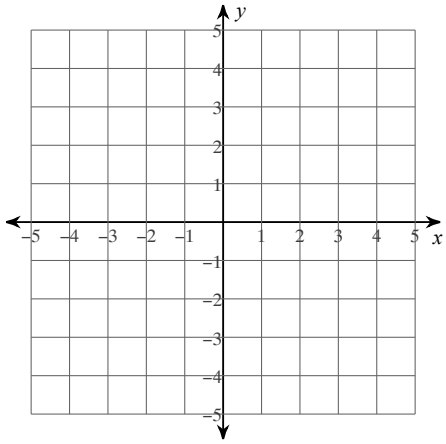
16) $y = -4$
$2x + 3y = -6$



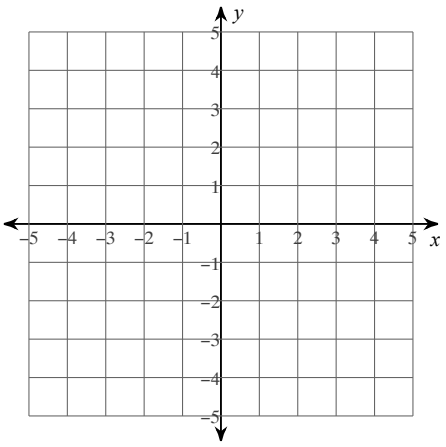
17) $x + 3y = -6$
$2x + y = 3$



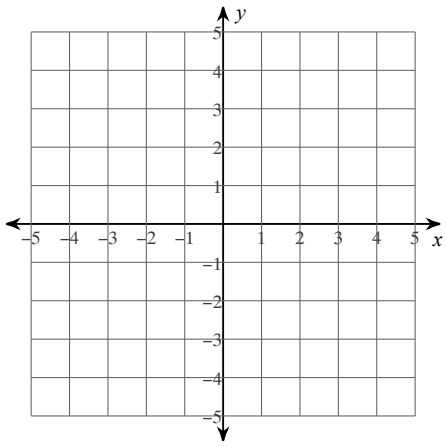
18) $7x + 3y = 12$
$x + 3y = -6$



19) $3x + 2y = -2$
$x + 2y = -6$



20) $2x + 3y = -3$
$2x + y = 3$



Solve each system by substitution.

21) $x + y = -2$
$-6x - 7y = 15$

22) $-4x - 2y = 20$
$x - y = -2$

23) $-x + y = 0$
$-6x + 7y = -8$

24) $x + 5y = -23$
$3x - 6y = 15$

25) $y = 8$
$-8x - 4y = -24$

26) $6x + 4y = -16$
$x - 2y = 8$

27) $x + 4y = -11$
$-6x - 7y = 15$

28) $-4x - 2y = -16$
$x - 3y = 4$

29) $2x + 3y = -13$
$x - 5y = 0$

30) $3x + 6y = -15$
$x + 3y = -9$

31) $6x + 4y = 12$
$-6x - 3y = -9$

32) $5x - 4y = 4$
$-5x + 6y = -16$

33) $7x + 2y = 24$
$8x - 2y = 6$

34) $-x - 2y = 6$
$2x - 5y = -3$

35) $2x - 2y = -8$
$4x - 5y = -15$

36) $-2x + 3y = -22$
$8x - 3y = 16$

37) $-7x - 2y = -1$
$-2x - 7y = 19$

38) $-6x + 5y = 13$
$5x + 2y = -17$

39) $4x - y = -10$
$-8x - 3y = 10$

40) $3x - 6y = -24$
$y = 2$

Solve each system by elimination.

41) $14x + 6y = 6$
$-7x + 3y = 3$

42) $5x - 6y = 24$
$-x + 3y = -12$

43) $4x + 2y = 18$
$8x - 9y = -3$

44) $8x - 2y = -6$
$-2x - 8y = -24$

45) $-9x - 6y = -18$
$-18x - 3y = 18$

46) $6x + 9y = 0$
$-12x - 5y = -26$

47) $-7x + 2y = 17$
$x + 3y = -9$

48) $2x - 9y = 4$
$-12x - 4y = -24$

49) $2x - 5y = -16$
$x - y = -8$

50) $-18x - 8y = -12$
$9x + 5y = 12$

51) $6x + 8y = 4$
$-9x - 3y = 12$

52) $-5x - 10y = -20$
$8x + 4y = 20$

53) $5x - 7y = -4$
$-6x - 9y = -30$

54) $9x - 6y = 18$
$6x - 5y = 6$

55) $-3x + 5y = -15$
$4x - 2y = -22$

56) $-6x + 9y = 27$
$8x - 4y = 4$

57) $2x - 4y = 10$
$5x - 3y = -3$

58) $-2x + 2y = -8$
$5x + 5y = 20$

59) $9x - 3y = -9$
$-2x + 2y = -6$

60) $5x + 10y = 30$
$-6x + 6y = 0$

Algebra 2 Name_____ ID: 1

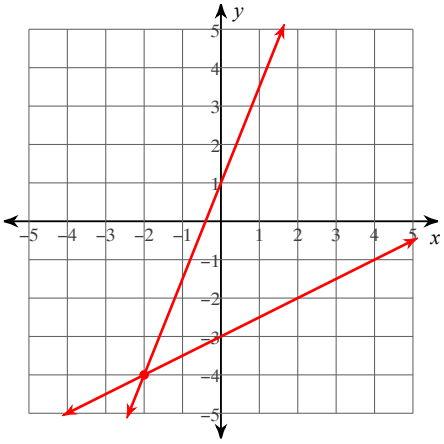
Assignment

Date_____ Period____

Solve each system by graphing.

1) $y = \frac{1}{2}x - 3$

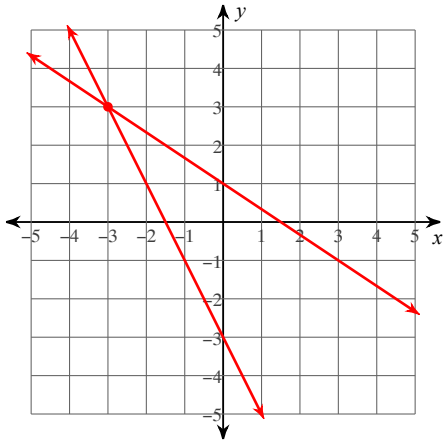
$y = \frac{5}{2}x + 1$



(–2, –4)

2) $y = -2x - 3$

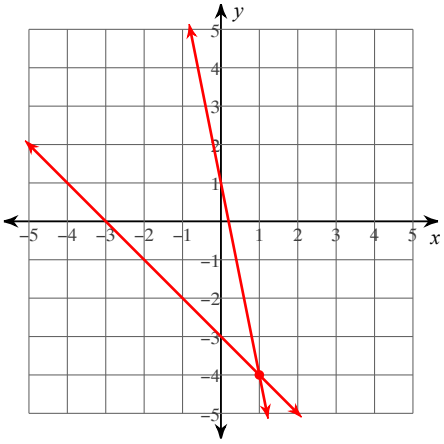
$y = -\frac{2}{3}x + 1$



(–3, 3)

3) $y = -x - 3$

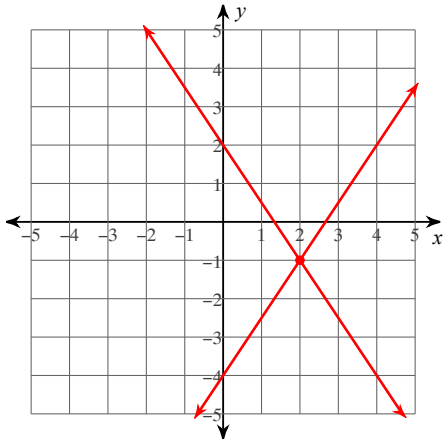
$y = -5x + 1$



(1, –4)

4) $y = \frac{3}{2}x - 4$

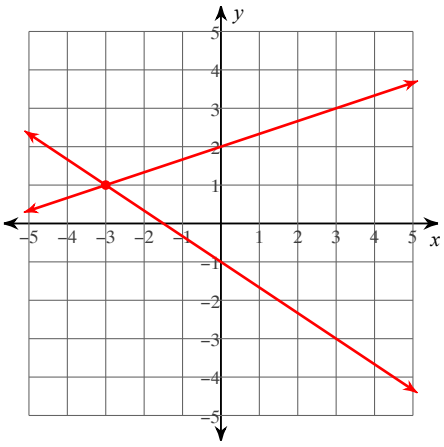
$y = -\frac{3}{2}x + 2$



(2, –1)

5) $y = \frac{1}{3}x + 2$

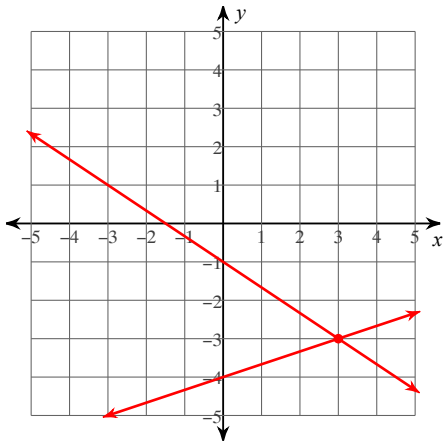
$y = -\frac{2}{3}x - 1$



$(-3, 1)$

6) $y = \frac{1}{3}x - 4$

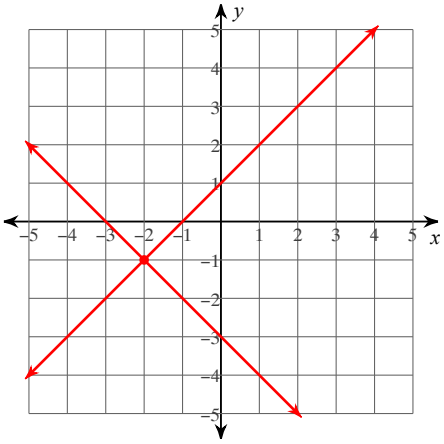
$y = -\frac{2}{3}x - 1$



$(3, -3)$

7) $y = -x - 3$

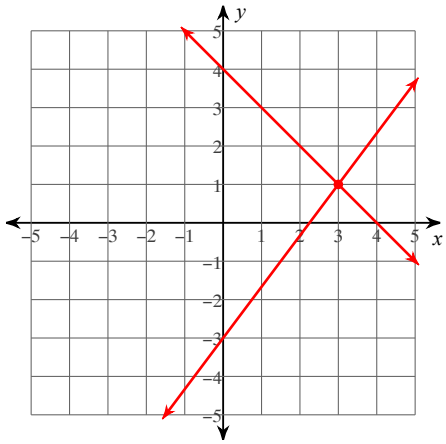
$y = x + 1$



$(-2, -1)$

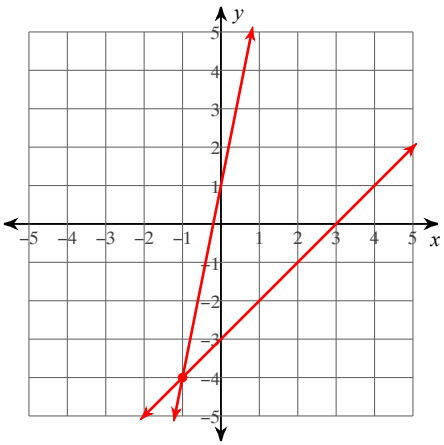
8) $y = \frac{4}{3}x - 3$

$y = -x + 4$



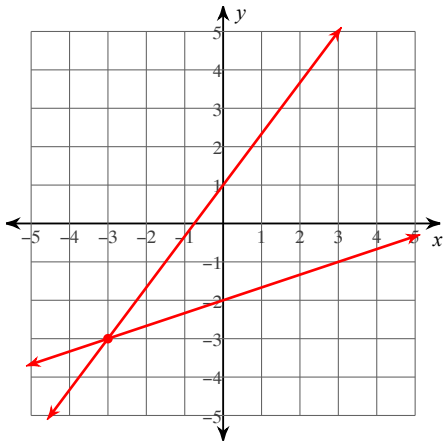
$(3, 1)$

9) $y = 5x + 1$
$y = x - 3$



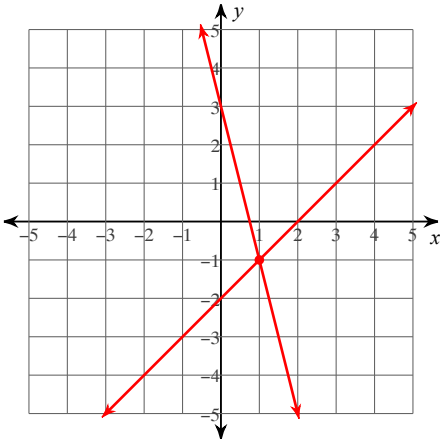
$(-1, -4)$

10) $y = \frac{4}{3}x + 1$
$y = \frac{1}{3}x - 2$



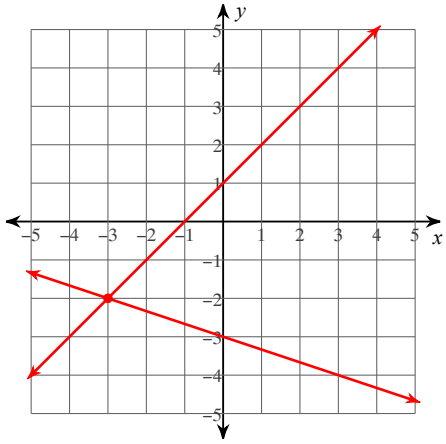
$(-3, -3)$

11) $x - y = 2$
$4x + y = 3$



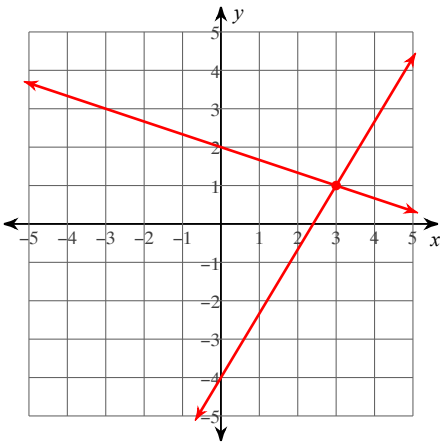
$(1, -1)$

12) $x - y = -1$
$x + 3y = -9$



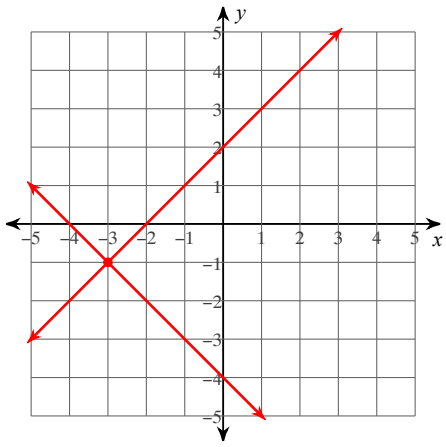
$(-3, -2)$

13) $5x - 3y = 12$
$x + 3y = 6$



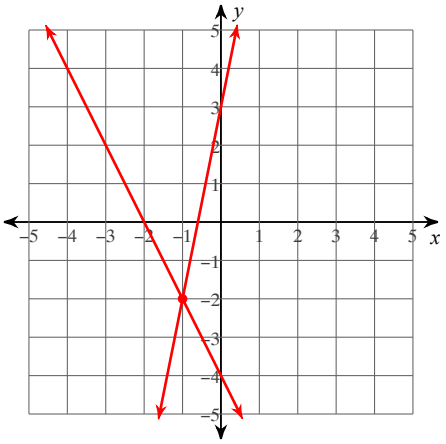
(3, 1)

14) $x - y = -2$
$x + y = -4$



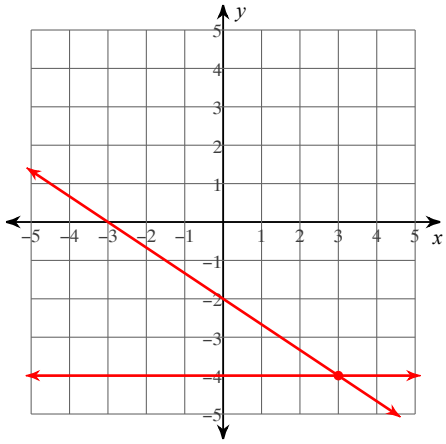
(–3, –1)

15) $5x - y = -3$
$2x + y = -4$



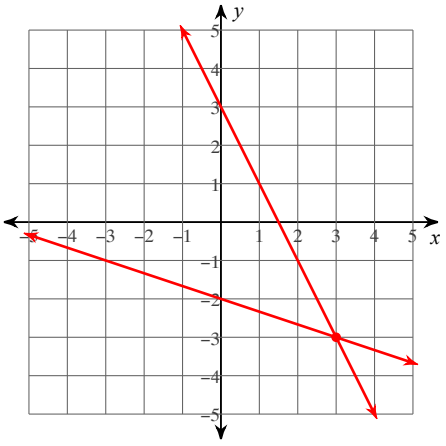
(–1, –2)

16) $y = -4$
$2x + 3y = -6$



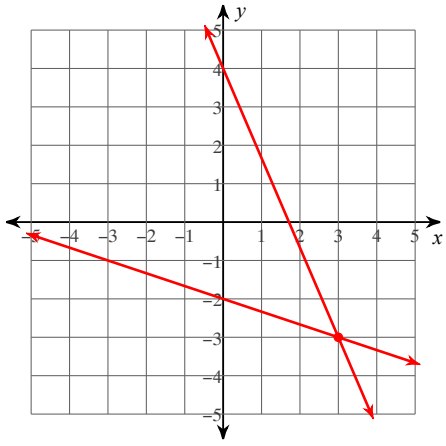
(3, –4)

17) $x + 3y = -6$
$2x + y = 3$



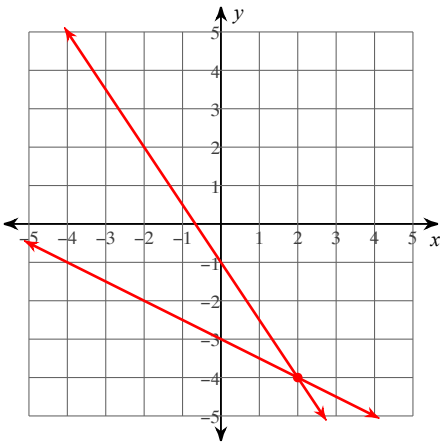
(3, –3)

18) $7x + 3y = 12$
$x + 3y = -6$



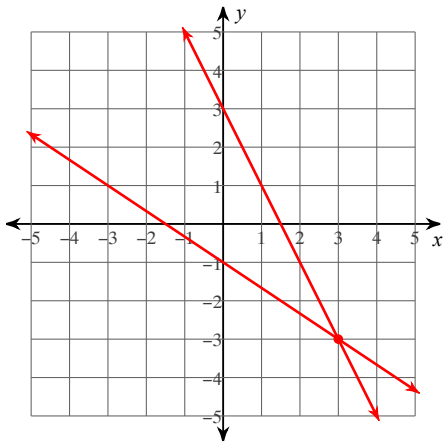
(3, –3)

19) $3x + 2y = -2$
$x + 2y = -6$



$(2, -4)$

20) $2x + 3y = -3$
$2x + y = 3$



$(3, -3)$

Solve each system by substitution.

21) $x + y = -2$
$-6x - 7y = 15$
$(1, -3)$

22) $-4x - 2y = 20$
$x - y = -2$
$(-4, -2)$

23) $-x + y = 0$
$-6x + 7y = -8$
$(-8, -8)$

24) $x + 5y = -23$
$3x - 6y = 15$
$(-3, -4)$

25) $y = 8$
$-8x - 4y = -24$
$(-1, 8)$

26) $6x + 4y = -16$
$x - 2y = 8$
$(0, -4)$

27) $x + 4y = -11$
$-6x - 7y = 15$
$(1, -3)$

28) $-4x - 2y = -16$
$x - 3y = 4$
$(4, 0)$

29) $2x + 3y = -13$
$x - 5y = 0$
$(-5, -1)$

30) $3x + 6y = -15$
$x + 3y = -9$
$(3, -4)$

31) $6x + 4y = 12$
$-6x - 3y = -9$
$(0, 3)$

32) $5x - 4y = 4$
$-5x + 6y = -16$
$(-4, -6)$

33) $7x + 2y = 24$
$8x - 2y = 6$
$(2, 5)$

34) $-x - 2y = 6$
$2x - 5y = -3$
$(-4, -1)$

35) $2x - 2y = -8$
$4x - 5y = -15$
$(-5, -1)$

36) $-2x + 3y = -22$
$8x - 3y = 16$
$(-1, -8)$

37) $-7x - 2y = -1$
$-2x - 7y = 19$
$(1, -3)$

38) $-6x + 5y = 13$
$5x + 2y = -17$
$(-3, -1)$

39) $4x - y = -10$
$-8x - 3y = 10$
$(-2, 2)$

40) $3x - 6y = -24$
$y = 2$
$(-4, 2)$

Solve each system by elimination.

41) $14x + 6y = 6$
$-7x + 3y = 3$
$(0, 1)$

42) $5x - 6y = 24$
$-x + 3y = -12$
$(0, -4)$

43) $4x + 2y = 18$
$8x - 9y = -3$
$(3, 3)$

44) $8x - 2y = -6$
$-2x - 8y = -24$
$(0, 3)$

45) $-9x - 6y = -18$
$-18x - 3y = 18$
$(-2, 6)$

46) $6x + 9y = 0$
$-12x - 5y = -26$
$(3, -2)$

47) $-7x + 2y = 17$
$x + 3y = -9$
$(-3, -2)$

48) $2x - 9y = 4$
$-12x - 4y = -24$
$(2, 0)$

49) $2x - 5y = -16$
$x - y = -8$
$(-8, 0)$

50) $-18x - 8y = -12$
$9x + 5y = 12$
$(-2, 6)$

51) $6x + 8y = 4$
$-9x - 3y = 12$
$(-2, 2)$

52) $-5x - 10y = -20$
$8x + 4y = 20$
$(2, 1)$

53) $5x - 7y = -4$
$-6x - 9y = -30$
$(2, 2)$

54) $9x - 6y = 18$
$6x - 5y = 6$
$(6, 6)$

55) $-3x + 5y = -15$
$4x - 2y = -22$
$(-10, -9)$

56) $-6x + 9y = 27$
$8x - 4y = 4$
$(3, 5)$

57) $2x - 4y = 10$
$5x - 3y = -3$
$(-3, -4)$

58) $-2x + 2y = -8$
$5x + 5y = 20$
$(4, 0)$

59) $9x - 3y = -9$
$-2x + 2y = -6$
$(-3, -6)$

60) $5x + 10y = 30$
$-6x + 6y = 0$
$(2, 2)$