

$$1.) \begin{array}{r} x + 4 = 12 \\ -4 \quad -4 \end{array}$$

$$\boxed{x = 8}$$

$$2.) \begin{array}{r} x - 9 = 23 \\ +9 \quad +9 \end{array}$$

$$\boxed{x = 32}$$

$$3.) \left(\frac{x}{7}\right) = (3)7$$

$$\boxed{x = 21}$$

$$4.) \frac{9x}{9} = \frac{45}{9}$$

$$\boxed{x = 5}$$

$$1.) \begin{array}{r} 3x - 4 = 8 \\ +4 \quad +4 \end{array}$$

$$\frac{3x}{3} = \frac{12}{3}$$

$$\boxed{x = 4}$$

$$2.) \frac{x}{4} + 3 = 10$$

$$4 \left(\frac{x}{4}\right) = (7)4$$

$$\boxed{x = 28}$$

$$3.) \begin{array}{r} 4a + 1 = 13 \\ -1 \quad -1 \end{array}$$

$$\frac{4a}{4} = \frac{12}{4}$$

$$\boxed{a = 3}$$

$$4.) \frac{x}{2} - 3 = 5$$

$$2 \left(\frac{x}{2}\right) = (8)2$$

$$\boxed{x = 16}$$

$$5.) \star + \square + \bigcirc = \triangle$$

Solve for \bigcirc

Solve for x

$$\star + \square \bigcirc = \triangle$$

$$8 + 2x = 10$$

$$-\star \quad -\star$$

$$-8$$

$$-8$$

$$\frac{\square \bigcirc}{\square} = \frac{\triangle - \star}{\square}$$

$$\frac{2x}{2} = \frac{10 - 8}{2}$$

$$\bigcirc = \frac{\triangle - \star}{\square}$$

$$x = \frac{10 - 8}{2}$$

$$\boxed{3a} + 5 \boxed{-x} + \boxed{7x} - \boxed{2a}$$

"simplify"
COMBINE LIKE
TERMS

$$3a - 2a = a$$

$$-x + 7x = 6x$$

$$\boxed{a + 6x + 5}$$

$$\boxed{2x} - 5 \boxed{+ 3a} - \boxed{5x} + \boxed{10a}$$

$$2x - 5x$$

$$-3x$$

$$3a + 10a$$

$$13a$$

-5 by convention:
write terms in
alphabetical order

$$\boxed{13a - 3x - 5}$$

$$7b - b - x + 5 - 2x - 7b \quad \text{"simplify"}$$

$$\cancel{7b} - b - \cancel{7b} = -b$$

$$-x - 2x = -3x$$

$$-x + (-2x) = -3x$$

$$\boxed{-b - 3x + 5}$$

$$-4x + 3(2x - 5) = 31$$

$$-4x + 6x - 15 = 31$$

$$2x - 15 = 31$$

$$+15 \quad +15$$

$$\frac{2x}{2} = \frac{46}{2}$$

$$\boxed{x = 23}$$

1.) Distribute
"slap"

2.) Combine like terms

"be racist" ;)

3.) Dub step

$$1.) 13 + 2(5c - 2) = 29$$

$$\boxed{13} + 10c \boxed{-4} = 29$$

$$10c + 9 = 29$$

$$-9 \quad -9$$

$$\frac{10c}{10} = \frac{20}{10}$$

$$\boxed{c = 2}$$



$$13 + 10c + (-4)$$

$$13 + (-4) + 10c$$

$$\underline{13 - 4} + 10c$$

$$9 + 10c$$

$$5(t-3) - 2t = -30$$

$$\boxed{5t} - 15 - \boxed{2t} = -30$$

$$5t - 2t = 3t$$

$$3t - 15 = -30$$

$$+15 \quad +15$$

$$\frac{3t}{3} = \frac{-15}{3}$$

$$\boxed{t = -5}$$

$$\frac{2}{5}(5k + 35) - 8 = 12$$

$$\frac{2}{5}(5k) + \frac{2}{5}(35)$$

$$\frac{10k}{5} = 2k \quad \frac{70}{5} = 14$$

$$2k + \underbrace{14} - 8 = 12$$

$$2k + 6 = 12$$

$$-6 \quad -6$$

$$\frac{2k}{2} = \frac{6}{2}$$

$$\boxed{k = 3}$$