

Chap 1 Sec 6 - Rewriting Equations & Formulas

Pg: 11

Solve the equation for y .

$$1) \frac{2}{5}x + y = 7$$

$$\begin{array}{r} -\frac{2}{5}x \qquad -\frac{2}{5}x \\ \hline \end{array}$$

$$y = -\frac{2}{5}x + 7$$

$$y = mx + b$$

m = slope of the line

b = the y -intercept



$$\begin{array}{r} 2) \quad 24 = 4x + 6y \\ \quad -4x \quad -4x \\ \hline \end{array}$$

$$\frac{-4x + 24}{6} = \frac{6y}{6}$$

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

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

$$\begin{array}{r} -5x \qquad \qquad -5x \\ \hline \end{array}$$

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

$$y = 10x - 6$$

$$4) \begin{array}{r} 6\pi = x + 2y \\ -x \quad -x \\ \hline \end{array}$$

$$\frac{-x}{2} + \frac{6\pi}{2} = \frac{2y}{2}$$

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

Solve the equation for the Bold variable

$$\begin{array}{r} 5. P = \mathbf{R} + C \\ -C \quad -C \\ \hline P - C = R \end{array}$$

$$\begin{array}{r} 6. P = \frac{\mathbf{X}}{n} \\ \vdots \\ \Rightarrow pn = \mathbf{X} \end{array}$$

$$7) \quad V = \frac{1}{3} \pi R^2 h$$

$$\frac{1}{3} \pi R^2 \quad \frac{1}{3} \pi r^2$$

$$\frac{3V}{\pi R^2} = h$$