

Warm-up

① Solve for y

$$3x + 2y = -10$$

$$y = \frac{-10 + \cancel{3x}}{2}$$

② Solve for n

$$PV = nRT$$

$$\frac{PV}{RT} = n$$

③ Solve for t

$$A = P + Prt$$

$$A - P = \frac{P}{R} \cdot \frac{RT}{R}$$

$$\frac{A - P}{PR} = T$$

Example

Solve for y : find for $x = -4$

$$7x + xy = 18$$

$-7x$ \downarrow $-7x$

$$xy = 18 - 7x$$

$$y = \frac{18 - 7x}{x}$$

$$\frac{18 - 7(-4)}{-4} = \frac{46}{-4} = -11 \frac{1}{2}$$