

2.4 - LITERAL EQUATIONS

SOLVE FOR x .

$$2x + 5 = 9$$

$$2x = 4$$

$$x = 2$$

$$ax + b = y$$

$$ax = y - b$$

$$x = \frac{y - b}{a}$$

1. Solve the equation for y .

$$-5x + y = -56$$

$$y = 5x - 56$$

2. Solve the equation for W .

$$P = 2L + 2W$$

$$\frac{P - 2L}{2} = \frac{2W}{2}$$

$$\frac{P}{2} - L = W$$

3. Solve the equation for r .

$$A = P(1 + rt)$$

$$A = P + Prt$$

$$\frac{A - P}{Pt} = \frac{Prt}{Pt}$$

$$\frac{A - P}{Pt} - \frac{1}{t} = r$$

4. Solve the equation for h .

$$\left(A = \frac{1}{2}bh \right) 2$$

$$2A = bh$$

$$\frac{2A}{b} = h$$

5. Solve the equation for t .

$$2S = n(a + t)$$

$$2S = na + nt$$

$$\frac{2S - na}{n} = \frac{nt}{n}$$

$$\frac{2S}{n} - a = t$$