

Name: _____

Score: _____ Date: _____

Solving Literal Equations

Solve each equation for the given variable.

① $6x = 18$, for x

② $A = \frac{1}{2}h(a + b)$, for a

③ $y = \frac{f + g}{3}$, for g

④ $3ax + b = c$, for x

⑤ $v = \frac{1}{3}Bh$, for h

⑥ $y - y_1 = m(x - x_1)$, for x

⑦ $s = 2(lw + lh + wh)$, for w

⑧ $g = 4ca - 3ba$, for a

Name: _____

Score: _____ Date: _____

Solving Literal Equations

Answers

① $6x = 18$, for x

$$\underline{x = 3}$$

② $A = \frac{1}{2}h(a + b)$, for a

$$\underline{a = \frac{2A}{h} - b}$$

③ $y = \frac{f + g}{3}$, for g

$$\underline{g = 3y - f}$$

④ $3ax + b = c$, for x

$$\underline{x = \frac{c - b}{3a}}$$

⑤ $v = \frac{1}{3}Bh$, for h

$$\underline{h = \frac{3v}{B}}$$

⑥ $y - y_1 = m(x - x_1)$, for x

$$\underline{x = \frac{y - y_1 + mx_1}{m}}$$

⑦ $s = 2(lw + lh + wh)$, for w

$$\underline{w = \frac{s - 2lh}{2l + 2h}}$$

⑧ $g = 4ca - 3ba$, for a

$$\underline{a = \frac{g}{4c - 3b}}$$