

Literal Equations

Solve each equation for the given variable.

1 $c = \frac{d}{2}$, for d

2 $-3x + 2c = -3$, for x

3 $12ax = 3$, for a

4 $7a - 8b = 10x$, for a

5 $2b - 9 = d$, for b

6 $\frac{1}{2}(4x) = 10$, for x

7 $v = \pi r^2 h$, for h

8 $y = mx + b$, for b

9 $ax + by = c$, for y

10 $ax = y + p$, for a

Literal Equations

Answers

1 $c = \frac{d}{2}$, for d

$$d = 2c$$

2 $-3x + 2c = -3$, for x

$$x = \frac{2c + 3}{3}$$

3 $12ax = 3$, for a

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

4 $7a - 8b = 10x$, for a

$$a = \frac{10x + 8b}{7}$$

5 $2b - 9 = d$, for b

$$b = \frac{d + 9}{2}$$

6 $\frac{1}{2}(4x) = 10$, for x

$$x = 5$$

7 $v = \pi r^2 h$, for h

$$h = \frac{v}{\pi r^2}$$

8 $y = mx + b$, for b

$$b = y - mx$$

9 $ax + by = c$, for y

$$y = \frac{c - ax}{b}$$

10 $ax = y + p$, for a

$$a = \frac{y + p}{x}$$