

Literal Equations, 10/18/18

1) $C = 2\pi r$
solve for r

$$\frac{C}{2\pi} = \frac{2\pi r}{2\pi}$$
$$r = \frac{C}{2\pi}$$

2) $A = \frac{1}{2} b \cdot h$

Solve for h

$$\frac{A}{n} = \frac{\frac{1}{2} b \cdot h}{n}$$
$$2 \cdot \frac{A}{n} = \frac{1}{2} b \cdot 2$$
$$\frac{2A}{n} = b$$

3) $A = l \cdot w$
solve for w

$$\frac{A}{l} = \frac{l \cdot w}{l}$$
$$w = \frac{A}{l}$$

4) $y = 7x + 3$ solve for x

$$\frac{y-3}{7} = \frac{7x}{7}$$
$$x = \frac{y-3}{7}$$

5) $m = 7 - x$

$$\frac{m-7}{-1} = \frac{-x}{-1}$$

$$\frac{7-m}{-1} = x$$

$$x = 7 - m$$
$$x = m - 7$$

Solve for c

6) $d = 2b + 3 - 4c$

$$\frac{d-3}{-2} = \frac{2b-4c}{-2}$$

$$\frac{d-2b-3}{-4} = \frac{-4c}{-4}$$

$$c = \frac{d-2b-3}{-4}$$