

Literal Equations Test Review: Scroll down for the answer key

Solve the following for the indicated variable:

1) $A = \frac{1}{2}bh$ for h

2) $3x + 7y = 4$ for y

3) $A = 4lw + bh$ for h

4) $n = C - rC$ for C

5) $3x = xy - z$ for x

Solve the following for the indicated variable:

$$1) A = \frac{1}{2}bh \text{ for } h$$

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

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

$$2) 3x + 7y = 4 \text{ for } y$$

$$\frac{7y}{7} = \frac{-3x+4}{7}$$

$$y = \frac{-3x+4}{7} \text{ or}$$

$$y = \frac{-3x+4}{7}$$

$$3) A = 4lw + bh \text{ for } h$$

$$\frac{A-4lw}{b} = \frac{bh}{b}$$

$$h = \frac{A-4lw}{b}$$

$$4) n = \frac{C}{1-r} - rC \text{ for } C$$

$$\frac{n}{1-r} = \frac{C(1-r)}{1-r}$$

$$C = \frac{n}{1-r}$$

$$5) 3x = xy - z \text{ for } x$$

$$3x - xy = -z$$

$$\frac{x(3-y)}{3-y} = \frac{-z}{3-y}$$

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