

Stick Quiz: in journals

1. $2(4x + 1) - 2x = 9x + 1$

2. $3k + 5 = 17$

3. $\frac{-a}{3} - 4 = 5$

1. $2(4x + 1) - 2x = 9x + 1$

$$\begin{array}{r} 8x + 2 - 2x = 9x + 1 \\ \hline 6x + 2 = 9x + 1 \\ -6x \quad -6x \quad \downarrow \\ \hline 2 = 3x + 1 \\ -1 \quad -1 \\ \hline 1 = 3x \\ \frac{1}{3} = \frac{3x}{3} \end{array}$$

$x = \frac{1}{3}$ ✓

$$\begin{array}{r} 2(4(\frac{1}{3}) + 1) - 2(\frac{1}{3}) \\ 4 \\ 9(\frac{1}{3}) + 1 \\ 4 \end{array}$$

2. $3k + 5 = 17$

$$\begin{array}{r} 3k + 5 = 17 \\ -5 \quad -5 \\ \hline 3k = 12 \\ \frac{3k}{3} = \frac{12}{3} \end{array}$$

$k = 4$ ✓

3. $\frac{-a}{3} - 4 = 5$

$$\begin{array}{r} \frac{-a}{3} - 4 = 5 \\ +4 \quad +4 \\ \hline \frac{-a}{3} = 9 \cdot 3 \\ -a = 27 \\ -1 \quad -1 \end{array}$$

$a = -27$ ✓

$$\begin{array}{r} -(-27) - 4 = 5 \\ \frac{27}{3} - 4 = 5 \\ 9 - 4 = 5 \\ \checkmark \end{array}$$

Find the value of h so that the figures have the same area.

Area of a Triangle = $\frac{1}{2}bh$

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

$$\frac{1}{2} \cdot 6 \cdot h = \frac{1}{2} \cdot 10 \cdot (h-2)$$

$$3h = 5(h-2)$$

$$3h = 5h - 10$$

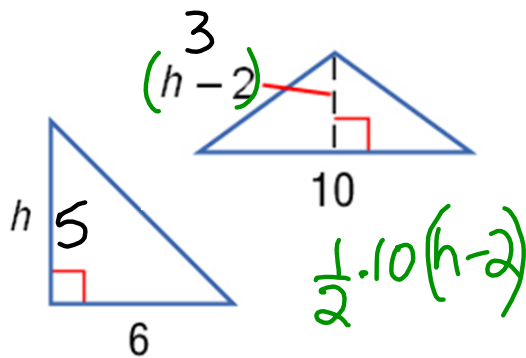
$$-5h \quad | \quad -5h$$

$$\hline -2h = -10$$

$$\frac{-2h}{-2}$$

$$\frac{-10}{-2}$$

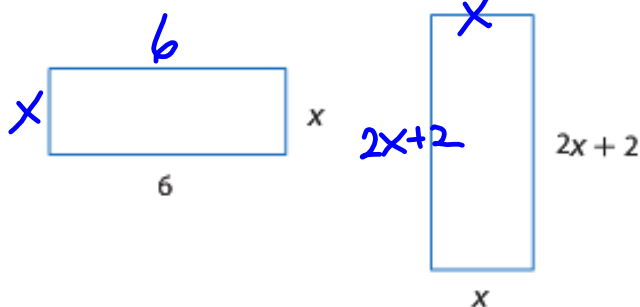
$$h = 5$$



$$\frac{1}{2} \cdot 6 \cdot h$$

$$\frac{1}{2} \cdot 10 \cdot (h-2)$$

Find the value of x so that the figures have the same perimeter.



=

perimeter = add up sides

Area: Multiplication Formula

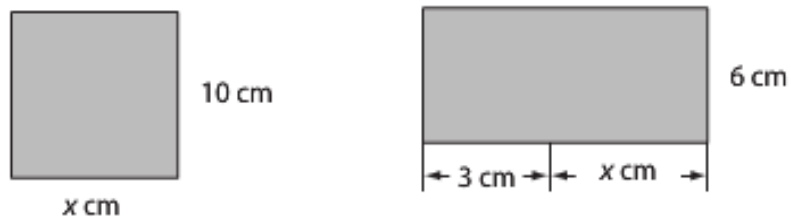
Triangle

$$A = \frac{1}{2}bh$$

Square/Rectangle

$$A = bh$$

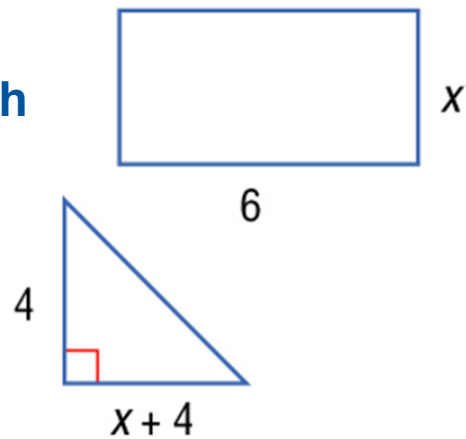
Find the value of x so that the figures have the same area.



Find the value of x so that the figures have the same area.

Area of a Triangle = $\frac{1}{2}bh$

Area of a Rectangle = bh



Pg 100#23 *lesser*

x
1st Even#

$(x+2)$
next one

$-4, -2$

$$4x = 2(x+2) - 12$$

$$4x = 2x + 4 - 12$$

$$4x = 2x - 8$$

$$-2x = -2x$$

$$\frac{2x}{2} = \frac{-8}{2}$$

$$x = -4$$



Homework 2.4

2.4 WS Left Side

All word problems!