

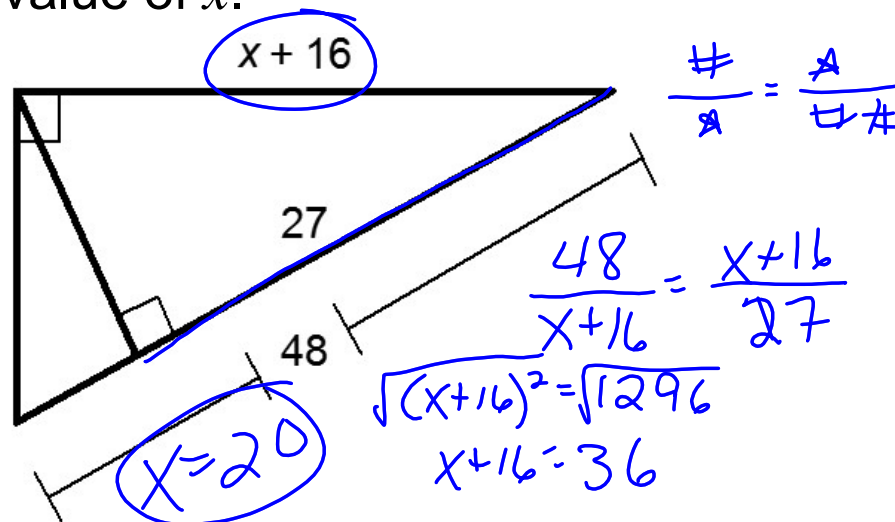
Assignments

* Applications of Right Triangles worksheet
(30 points - **FOLLOW DIRECTIONS!**) ^{Fri.} 4/24

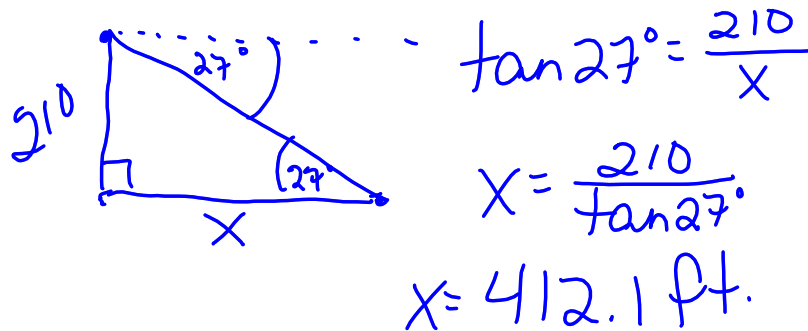
* Chapter Review worksheet (36 points) ^{Fri.} 4/24

Warm-ups

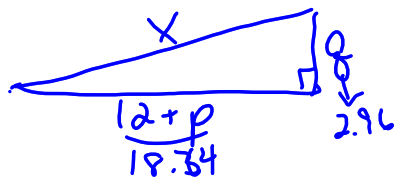
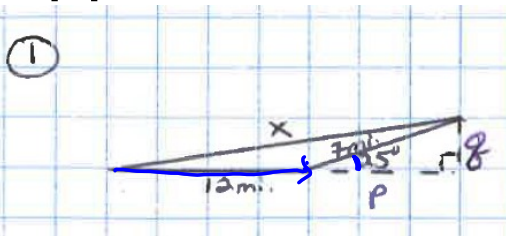
Find the value of x .



From the top of a lighthouse 210 feet high, the angle of depression to a boat is 27° . Find the distance from the boat to the foot of the lighthouse. The lighthouse was built at sea level.



Applications Worksheet:



$$18.34^2 + 2.96^2 = x^2$$

$$336.3556 + 8.7616 = x^2$$

$$x^2 = 345.1172$$



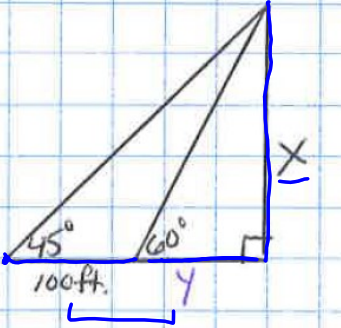
$$\cos 25^\circ = \frac{p}{7} \quad \sin 25^\circ = \frac{q}{7}$$

$$p = 7 \cdot \cos 25^\circ \quad q = 7 \cdot \sin 25^\circ$$

$$p = 6.34 \quad q = 2.96$$

$$x = \underline{\underline{18.6 \text{ miles}}}$$

(15)



$45^\circ-45^\circ-90^\circ$
 $X = y + 100$
 $y = 100 - X$

$30^\circ-60^\circ-90^\circ$
 $X = y\sqrt{3}$
 $X = (100 - X)\sqrt{3}$
 $X = 100\sqrt{3} - \sqrt{3}X$
 $1X + \sqrt{3}X = 100\sqrt{3}$
 $X(1 + \sqrt{3}) = 100\sqrt{3}$
 $X = \frac{100\sqrt{3}}{(1 + \sqrt{3})}$

$X = 236.6 \text{ ft.}$

Assignments - in One Note

- * Applications of Right Triangles worksheet (30 points)
- * Chapter Review worksheet (36 points)
- * 9.6 Extra Practice worksheet (20 points)