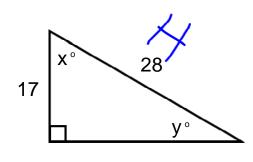
P. 76-77 Solving Right Triangles

14.3

Warm Up

p. 76

Find x and y.



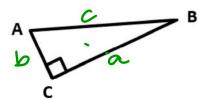
 $COSX = \frac{17}{28}$ $X = COS^{-1}(\frac{1}{2})$ $X = 52.6^{\circ}$ N = 90 - 52.6 $N = 37.4^{\circ}$

To "Solve" a right triangle means to find all missing sides and angles.

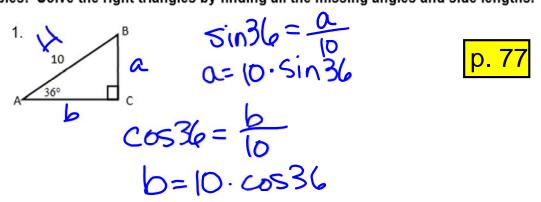
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We will use the skills from the chapter, and recall that the acute angles of a right triangle add up to _____.

In general, sides are named by using the vertex that is opposite to it. Label sides a, b, and c below



Examples: Solve the right triangles by finding all the missing angles and side lengths.



$$a = \frac{5.9}{8.1}$$

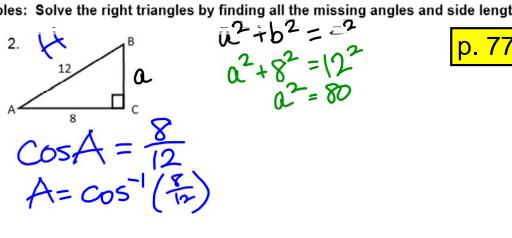
$$b = \frac{8.1}{0.00}$$

$$c = \frac{10}{0.00}$$

$$m \angle A = \frac{540}{0.00}$$

$$m \angle B = \frac{540}{0.00}$$

Examples: Solve the right triangles by finding all the missing angles and side lengths.



$$a = 8.9$$

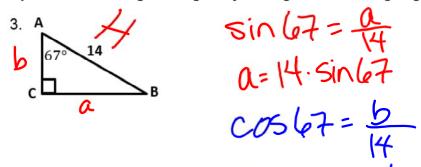
$$b = 8$$

$$c = 12$$

$$m \angle A = 48.2$$

$$m \angle B = 41.8$$

Examples: Solve the right triangles by finding all the missing angles and side lengths.



$$a = 12.9$$

$$b = 5.5$$

$$c = 14$$

$$m \angle A = 67$$

$$m \angle B = 23^6$$

Examples: Solve the right triangles by finding all the missing angles and side lengths.

 $\sin 33 = \frac{11}{c}$

$$4 \cdot \frac{1}{11} \cdot \frac{1}{$$

C = 11

$$a = \underbrace{0.9}_{b = \underbrace{1}_{a = 0.00}}$$

$$c=\underline{20.2}$$

$$y = \frac{1}{20.2}$$

$$y = 20.2$$

$$y = 4 = 57$$

$$y = 4 = 57$$

Assignment

Solving Right Triangles Homework

Remember Bring Textbook Tomorrow!