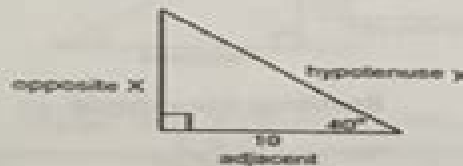


# Applying Trigonometric Ratios

Using the trigonometric ratios, solve for the missing sides  $x$  and  $y$  of each right triangle. Round your answers to the nearest tenth.

**Example:**



$$\text{Ratios: } \sin 40 = \left( \frac{x}{y} \right) \leftarrow$$

**Note:** having two variables in one ratio means it can not be solved.

$$\cos 40 = \left( \frac{10}{y} \right)$$

$$\tan 40 = \left( \frac{x}{10} \right)$$

Use the  $\tan$  and the  $\cos$  to solve for  $x$  and  $y$ .

$$\cos 40^\circ = \frac{10}{y}$$

$$\tan 40^\circ = \frac{x}{10}$$

$$y \cos 40^\circ = 10$$

$$x = 10 \tan 40^\circ = 8.39099$$

$$y = \frac{10}{\cos 40^\circ} = 13.05407$$

$$x = 8.4$$

$$y = 13.1$$

**Note:** Since these are right triangles, you can check your answer using the Pythagorean theorem. The answers will not be exact due to rounding.

$$12 \cos(20)$$

1.



$$x = 11.3$$

2.



3.



4.



5.



6.



7.



8.



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**California. Department of Education**



## Applying Trigonometric Ratios X And:

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