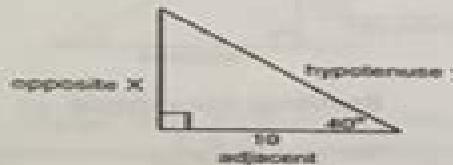


Applying Trigonometric Ratios

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

Example:



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

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

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

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

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

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

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

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

$$y = 13.1$$

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

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

$$x = 8.4$$

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

$$12 \cos(20)$$



$$12 \sin(20)$$



$$2.$$



$$4.$$



$$6.$$



$$7.$$



$$8.$$



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