

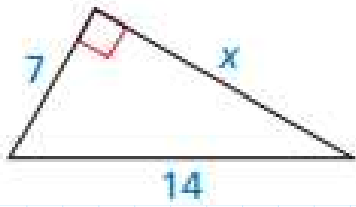
Chapter 9 Review

Determine if the following side lengths form an acute, right, or obtuse triangle.

22, 14, 26

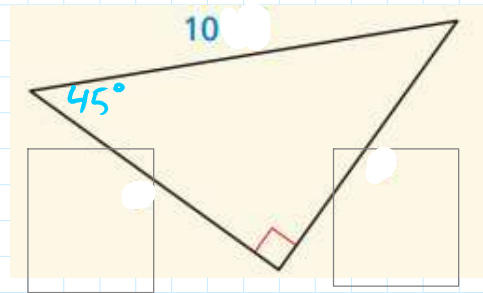
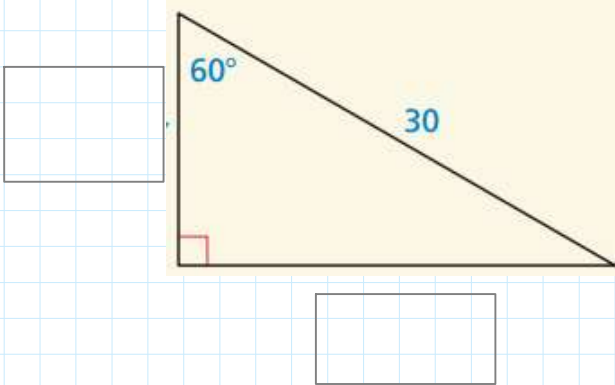
2

Find the value of x . Then tell whether the side lengths form a Pythagorean triple.



3

Find the length of each side of the right triangle. Write your answer in simplest form in the box.



3

Rewrite the statement in terms of cosine.

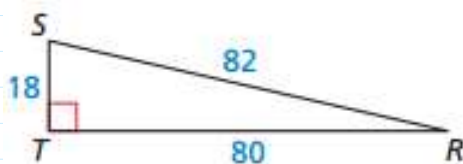
$$\sin 32^\circ =$$

Rewrite the statement in terms of sine.

$$\cos 14^\circ =$$

2

Find $\tan(S)$ and $\tan(R)$. Write each answer as a fraction and as a decimal rounded to four decimal places.

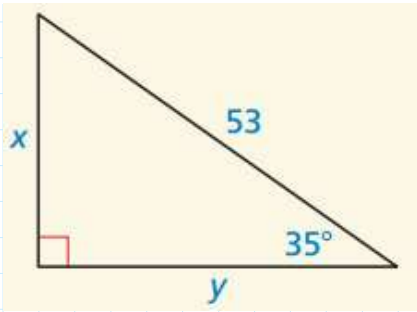


$$\tan S = \frac{80}{18} \approx 4.4444$$

$$\tan R = \frac{18}{80} \approx 0.2250$$

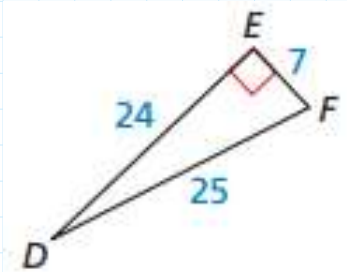
2

Find the value of x and y . Round your answer to the nearest tenth.



2

Use the figure to answer the following questions. Write your answer as a fraction and as a decimal rounded to four decimal places.

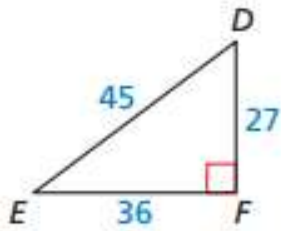


$$\sin F = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{DE}{DF} = \frac{24}{25} \approx 0.96$$

$$\cos F = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{EF}{DF} = \frac{7}{25} \approx 0.28$$

4

Find the measures of angles D and E. Use the diagram provided.



You go to the park on a windy day to fly a kite. You have released 160 feet of string. The string makes an angle of 39° with the ground. How high is the kite in the air?

A 25-foot ladder is resting against the side of a building. The bottom of the ladder is 5 feet from the building. Find the measure of the angle the ladder makes with the ground. Round your answer to the nearest tenth of a degree.

/

The End!

21 total questions.
Notecard allowed!
Graphing calculator allowed!

Good luck

Practice Test pg.
523: 1-14A

