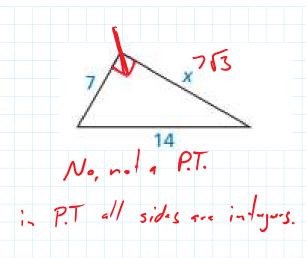
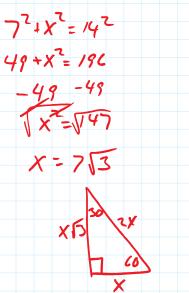
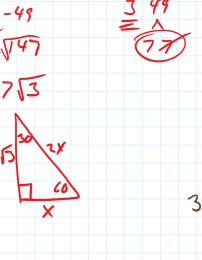


Find the value of x. Then tell whether the side lengths form a Pythagorean triple.  $a^2 + \lambda^2 = \zeta^2$ 

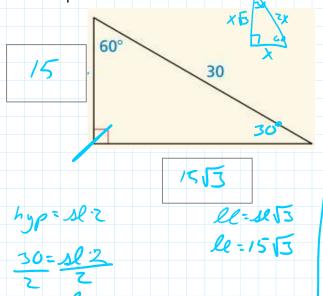


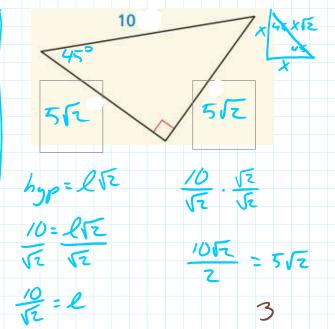




147

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

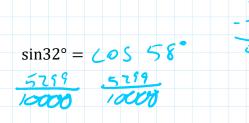


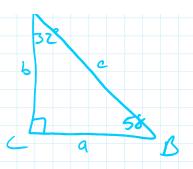


Rewrite the statement in terms of cosine.









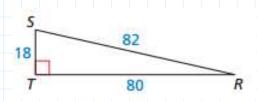
Rewrite the statement in terms of sine.

$$\cos 14^\circ = \sin 76^\circ \qquad 76^\circ$$

$$Si \cdot B = \frac{6}{c} \rightarrow S. \cdot \cdot 58 = \frac{6}{c}$$

$$cos A = \frac{5}{c} \rightarrow cos 32 = \frac{5}{c}$$

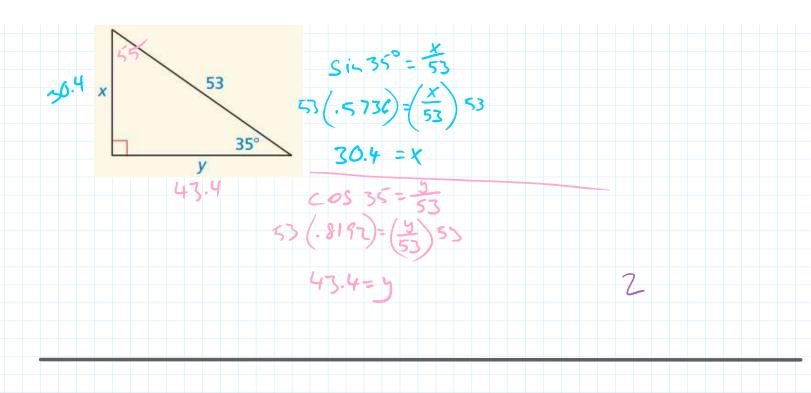
Find tan(S) and tan(R). Write each answer as a fraction and as a decimal rounded to four decimal places.



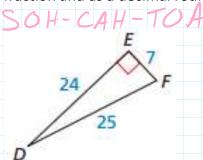
$$\tan S = \frac{86}{18} \approx 4.4444$$

7

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



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

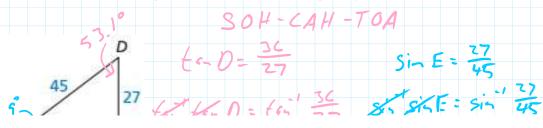


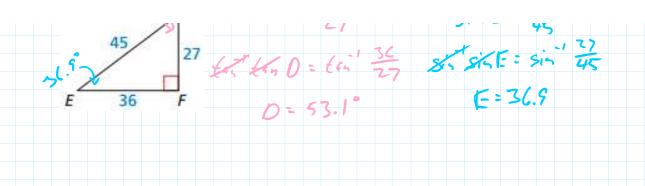
$$\sin F = \frac{24}{25} \approx .9600$$

$$\cos F = \frac{1}{25} \approx .7800$$

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.



