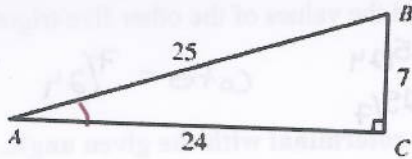


# Chapter 13 Test Review with calculator

Name \_\_\_\_\_

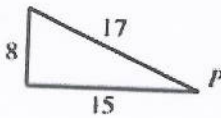
1. Write  $\sin A$  as a fraction in lowest terms.



$$\sin A = \frac{7}{25}$$

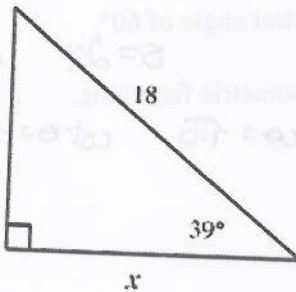
Use the right triangle to write the quantity as a fraction in lowest terms.

2.  $\tan P$



$$\tan P = \frac{8}{15}$$

3. Find  $x$  to the nearest hundredth.



$$\cos 39^\circ = \frac{x}{18}$$

$$x = 18 \cos 39^\circ$$

$$x = 13.99$$

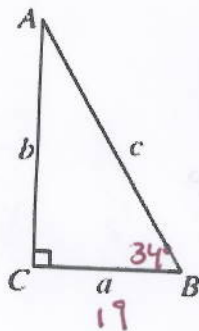
Use a calculator. Round to three decimal places.

4.  $\sec 34^\circ = \frac{1}{\cos 34^\circ} = 1.206$

5.  $\csc 40^\circ = \frac{1}{\sin 40^\circ} = 1.556$

6.  $\cot 50^\circ = \frac{1}{\tan 50^\circ} = 0.839$

7. Solve  $\triangle ABC$  using the diagram and the given measurements. (The triangle is not drawn to scale.)  
 $B = 34^\circ$ ,  $a = 19$



$$A = 90^\circ - 34^\circ = 56^\circ$$

$$\tan 34^\circ = \frac{b}{19}$$

$$b = 19 \tan 34^\circ$$

$$b = 12.82$$

$$\cos 34^\circ = \frac{19}{c}$$

$$c = \frac{19}{\cos 34^\circ}$$

$$c = 22.92$$

$$\begin{aligned} A &= 56^\circ \\ b &= 12.82 \\ c &= 22.92 \end{aligned}$$