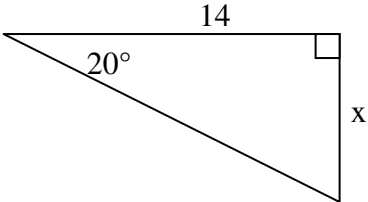
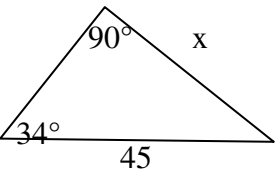
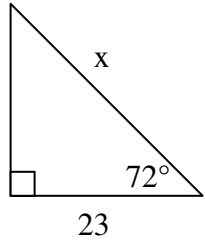
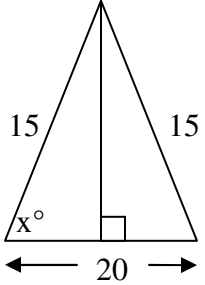
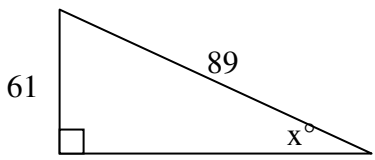
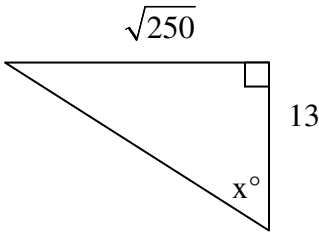


Practice Worksheet for Lessons 8-5 and 8-6

Name: _____

Mailbox #: _____

Find the value of x to the nearest tenth. You must show how you set up the equation to get credit for these problems.

<p>1)</p> 	<p>2)</p> 
<p>3)</p> 	<p>4)</p> 
<p>5)</p> 	<p>6)</p> 

7) The tallest fountain in the world is located at Fountain Hills, Arizona. If weather conditions are favorable, the water column can reach 625 feet. Suppose Alfonso visits the fountain on a perfect day and his eyes are 5 feet from the ground.

A) If Alfonso stands 40 ft from the fountain, find the angle of elevation for his line of sight to the top of the spray.

B) If Alfonso moves so that the angle of elevation for his line of sight to the top of the spray is 75° , how far is he from the base of the fountain?

8) A golfer is standing on a tee with the green in the valley below. If the tee is 43 yards higher than the green and the angle of depression from the tee to the hole is 14° , find the distance from the green to the hole.

9) The Observation Deck of the John Hancock Center is on the 94th floor, which is 1030 feet above the ground. The Skydeck of the Sears Tower is on the 103rd floor, which is 1335 feet above the ground. The John Hancock center is 1.7 miles from the Sears Tower. What is the angle of elevation from the Observation Deck to the Skydeck.