Geometry	Name	
Chapter 8 Lab Quiz Review	Date	Per

Tell whether the triangle with the given side lengths is acute, obtuse, or right. If a triangle can not be formed write not possible.

1. 17, 10, 14 2.  $\sqrt{3}$ , 5, 6 3. 10, 26, 24

Tell whether or not the parallelogram can be classified as a rectangle



5.

Simplify each Radical

Rationalize each denominator. (Make sure you reduce your fraction when possible)



60°

16. The perimeter if a square is 48 cm. Find the length of the diagonal.

17. The altitude of a equilateral triangle is 24 in. Find the length of a side.

Find the sine, cosine, and tangent for the given angle.



Find the side indicated by the variable. Round to the nearest tenth.



22. You are standing 50 meters from a hot air balloon that is preparing to take off. The angle of elevation to the top of the balloon is  $28^{\circ}$ . Find the height of the balloon.

Find the measure of the indicated angle to the nearest degree.



25. A hot air balloon hovers 75 feet above the ground. The balloon is tethered to the ground with a rope that is 125 feet long. At what angle of elevation, E, is the rope attached to the ground? Round your answer to the nearest degree.

