Unit 4 Quiz (practice test)

- 1. Which of the following could NOT be the three sides of a triangle?
 - a) 4,9,12
- b) 3, 6, 7
- c) 11, 20, 29
- d) 5, 9, 15

2. In parallelogram ABCD, angle A has a measure of 10x - 6 and angle C has a measure of 7x + 12. What is the measure of angle B (in degrees, so you have to solve for x)?

- 3. A rectangle has a length that is six more than its width. If its perimeter equals 32, what is the width?
- 4. The diagonals of a rhombus have lengths of 12 and 16. How long is one side of the rhombus?

- 5. Triangle ABC is similar to triangle TUV. If AC=3, BC=9, and TV=45, what is the length of UV?
- 6. Find the coordinates of point P that divides segment AB into a 6 to 2 ratio. A(-6,3) ; B(18,11)

- 7. A right triangle has the following legs: AC = 12 and BC = 9. What is the tangent of angle B?
- 8. A 30-60-90 triangle has a long leg with a length of 20. How long is the hypotenuse?

- 9. A ramp has a horizontal length of 18 and a height of 3. What is the trigonometric expression solved for the angle that the ramp makes with the ground?
- 10. A ramp has a heght of 7 and makes a 12° angle with the ground. What is the trigonometric expression solved for the slant length of the ramp?