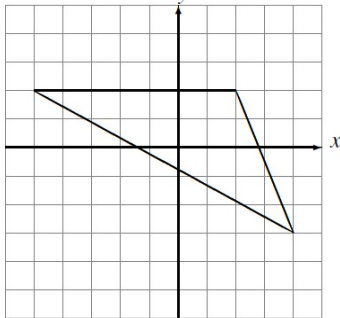
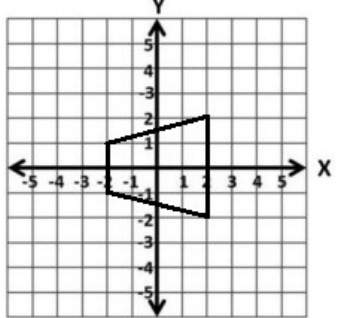
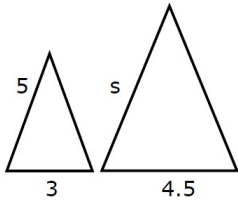
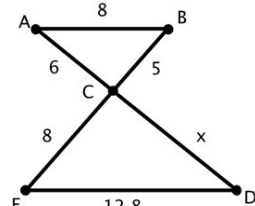
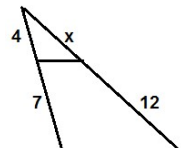
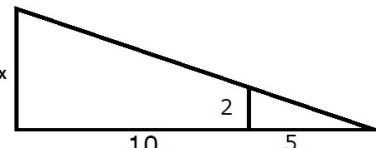
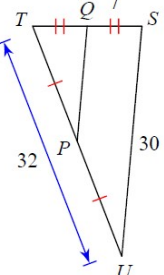
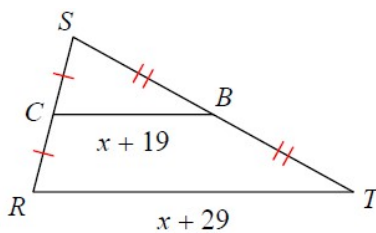
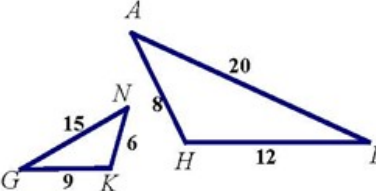
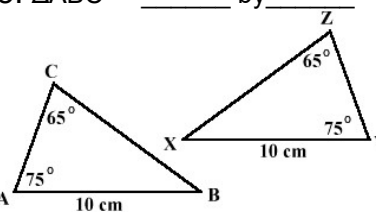
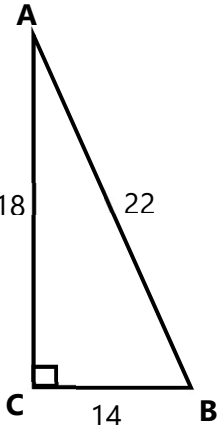
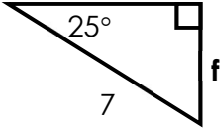
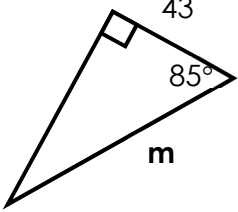
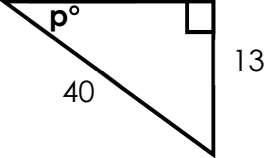
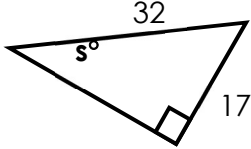


Name: \_\_\_\_\_

Date: \_\_\_\_\_

Use the following to review for you test. Work the Practice Problems on a separate sheet of paper.

What you need to know & be able to do	Things to remember		
<p>A. Perform a dilation with a given scale factor</p>	<p>When the center of dilation is the origin, you can multiply each coordinate of the original figure, or pre- image, by the scale factor to find the coordinates of the dilated figure, or image.</p>	<p>1. Dilate with <math>k = \frac{1}{2}</math>.</p> 	<p>2. Dilate with <math>k = 2</math>.</p> 
<p>B. Find the missing side for similar figures.</p>	<p>Set up a proportion by matching up the corresponding sides. Then, solve for <math>x</math>.</p>	<p>3.</p> 	<p>4.</p> 
		<p>5.</p> 	<p>6.</p> 
<p>C. Midsegment Theorem</p>	<p>The segment connecting the midpoints of two sides of the triangle is parallel to the third side and <math>\frac{1}{2}</math> the length of the third side.</p>	<p>5. Find PQ and TP</p> 	<p>6. Solve for <math>x</math>.</p> 
<p>D. Determine if 2 triangles are similar, and write the similarity statement.</p>	<p>Remember the 3 ways that you can do this: AA, SAS, SSS</p>	<p>7. <math>\triangle GKN \sim</math> _____ by _____</p> 	<p>8. <math>\triangle ABC \sim</math> _____ by _____</p> 

<p>E. Find sin, cos, and tan ratios</p>	<p>Just find the fraction using SOHCAHTOA</p>		<p>9. Find sin A.</p> <hr/> <p>10. Find tan B.</p> <hr/> <p>11. Find cos B.</p> <hr/> <p>12. Find tan A.</p>
<p>F. Know the relationship between the ratios for complementary angles.</p>	<p> <math>\sin \theta = \cos(90 - \theta)</math>  <math>\cos \theta = \sin(90 - \theta)</math>  <math>\tan \theta = \frac{1}{\tan(90 - \theta)}</math> </p>	<p>13. Given Right <math>\triangle ABC</math> and <math>\sin \theta = 5/13</math>, find <math>\sin(90 - \theta)</math> and <math>\cos(90 - \theta)</math>.</p>	
<p>G. Use trig to find a missing side measure</p>	<p>Set up the ratio and then use your calculator.</p> <p>If the variable is on the top, multiply. If the variable is on the bottom, divide.</p>	<p>14. Find f.</p> 	<p>15. Find m.</p> 
<p>H. Use trig to find a missing angle measure</p>	<p>Tap the trig button twice to get the INVERSE then type in the ratio.</p>	<p>16. Find p.</p> 	<p>17. Find s.</p> 
<p>I. Trig Word Problems</p>	<p>Draw the picture. Label the sides. Set up the ratio, and solve.</p>	<p>18. From 25 feet away from the base of a building, the angle of elevation from the ground to the top of a building is measured to be <math>38^\circ</math>. How tall is the building?</p> <hr/> <p>19. A kite is 35 feet in the air and the string forms an angle of <math>62^\circ</math> with the ground. How long is the string?</p>	