Geometry/Trig 2

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

Unit 6 Review

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

Section 1 - Proportions. Solve each proportion; show all work.





Section 2 - Similar Triangles. For each, state the scale factor and find the value of each variable.

2. 1. 13 <sup>1</sup> 8 6 5 Scale Factor: Scale Factor: \_ x = x = y = y = \_ 3 z = 4. 6 3. 12 40 15 110 х 10 12 y Scale Factor: Scale Factor: x = x = y = y = \_ z = Section 5 - Write a proportions and solve. For some problems, draw a picture may be helpful. 2. The scale on a map is 1 inch equals 5 feet. 1. If 6 pounds of apples cost \$9, then how much would 21 pounds of apples cost? What is the distance between two points on the map that are 8  $\frac{1}{2}$  inches apart on the map? Answer: Answer: 3. The angles in a pentagon follow the ratio 4. A man 6 feet tall casts a shadow that is 2:3:4:4:5. Find the measure of each angle. 11 feet long. A building casts a shadow of 139 feet long. What is the height of the building? Answer: Answer:

Section 4 - Similar Triangles. For each, state the scale factor and find the value of each variable.

