<u>Geometry 1-2 Dilation Review—(G.SRT.1, G.SRT.2)</u>

For the following problems, find a) the center of the dilation and b) the scale factor.



Scale Factor_____

Scale Factor_____

For the following problems, determine whether the two figures are similar by a) verifying that corresponding angles are congruent and b) verifying that corresponding sides are proportional. If they are similar, write a similarity statement AND the scale factor (based on how you write your similarity statement).

5. Corresponding Angles congruence statements Corresponding Sides Proportional? 24 85 15 850 12 Similarity Statement (if applicable) Scale Factor (if applicable)_____ 6. Corresponding Angles congruence statements 3 Q Corresponding Sides Proportional? 14 Y 7 5 X Similarity Statement (if applicable)_____ S R Scale Factor (if applicable) 7. Corresponding Angles congruence statements U 10.4 0 300 3 Corresponding Sides Proportional? 6 12 30 5.2 R Similarity Statement (if applicable)

Scale Factor (if applicable)_____

8. Sketch the dilation of $\triangle ABC$ using a scale factor of 3 if the dilation point is at the origin. After graphing the image, verify that the corresponding sides of $\triangle ABC$ and $\triangle A'B'C$ 'are both parallel and proportional.



9. Sketch the dilation of $\triangle ABC$ using a scale factor of $\frac{1}{3}$ if the dilation point is at point *B*. After graphing the image, verify that the corresponding sides of $\triangle ABC$ and $\triangle A'B'C'$ are both parallel and proportional.



Verify sides are parallel:

Verify sides are proportional:

10. Determine the sequence of similarity transformations that maps ΔBOL onto ΔMAL .



11. Determine the sequence of similarity transformations that maps ΔFGH onto $\Delta F'G'H'$



12. Determine the sequence of similarity transformations that maps ΔKGH onto $\Delta K'G'H'$

