Name: _____

6.1.D2 – Dilations

Past due on Period

Identify the dilation as an enlargement or a reduction and find its scale factor.



Find the scale factor of the dilation and then set up and solve a proportion to find the value of the variable.



The vertices of a triangle are F(-6, -1), G(-4, 1), & J(-4, -5). Dilate the triangle using the given scale factor and the origin as the center. Find the new coordinates of the image without graphing.

5. Scale factor: 2 6. Scale factor:
$$\frac{1}{2}$$

7. Under a dilation, triangle A(0,0), B(0,4), C(6,0) becomes triangle A'(0,0), B'(0,10), B'(C'(15,0). What is the scale factor for this dilation?

Graph the given pre-image, and then find the image of each polygon with the given vertices after a dilation centered at the origin with the given scale factor. Use a straight edge when making your drawings.

