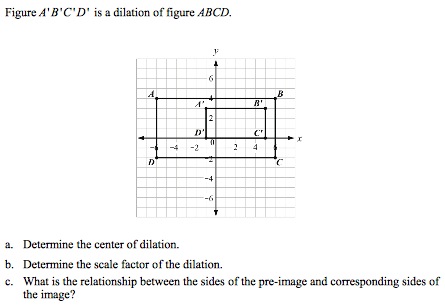
**Analytic Geometry – Dilations Quiz**

1. Rectangle *A’B’C’D’* is a dilation of rectangle *ABCD*.



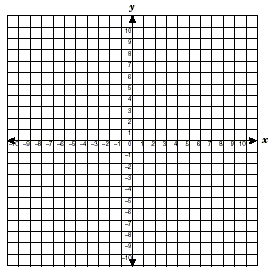
a. (4, 2) – can be found by drawing lines through all pairs of corresponding points.

b. ½. A’B’ = ½ AB.

c. Sides of the pre-image are twice as long as the sides of the image.

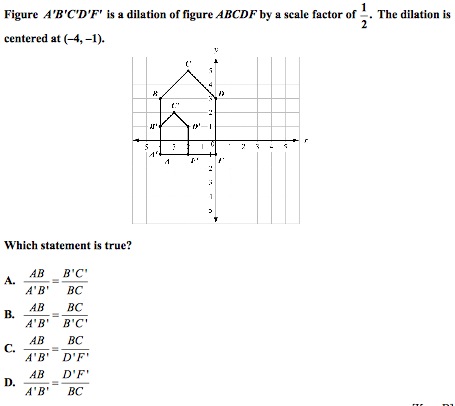
2. a. Draw a triangle with vertices *A*(0, 1), *B*(-3, 3), and *C*(1, 3). Dilate the triangles using a scale factor of and a center of (0, 0).

b. Dilate the same triangle using the same scale factor, but a center of (4, -1).

a. A’(0, 1.5), B’(-4.5, 4.5), C’(1.5, 4.5)

b. A’(-2, 2), B’(-6.5, 5), C’(-0.5, 5)

3. Figure *A’B’C’D’F’* is a dilation of figure *ABCDF* by a scale factor of . The dilation is centered at (-4, -1).



ANSWER: B. Corresponding side lengths are proportional.