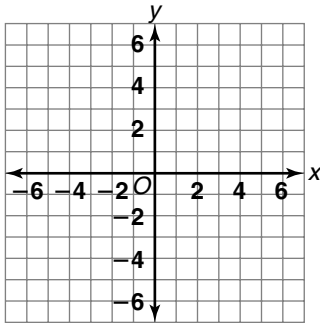


Practice 5-6

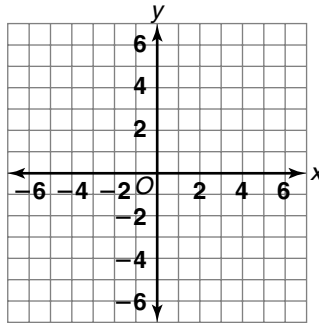
Similarity Transformations

Graph the coordinates of the quadrilateral $ABCD$. Find the coordinates of its image $A'B'C'D'$ after a dilation with the given scale factor.

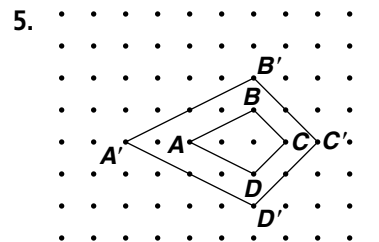
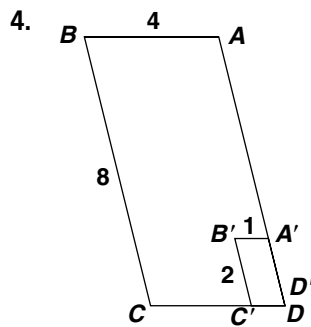
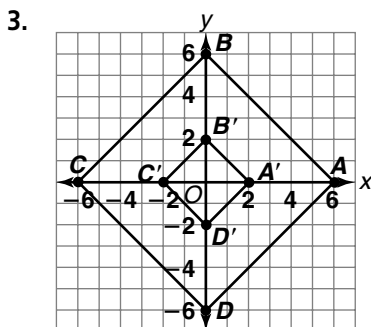
1. $A(2, -2), B(3, 2), C(-3, 2), D(-2, -2)$;
scale factor 2



2. $A(6, 3), B(0, 6), C(-6, 2), D(-6, -5)$;
scale factor $\frac{1}{2}$



Quadrilateral $A'B'C'D'$ is a dilation of quadrilateral $ABCD$. Find the scale factor. Classify each dilation as an enlargement or a reduction.



6. A triangle has coordinates $A(-2, -2), B(4, -2)$, and $C(1, 1)$. Graph its image $A'B'C'$ after a dilation with scale factor $\frac{3}{2}$. Give the coordinates of $A'B'C'$, and the ratio of the areas of the figures $A'B'C'$ and ABC .

