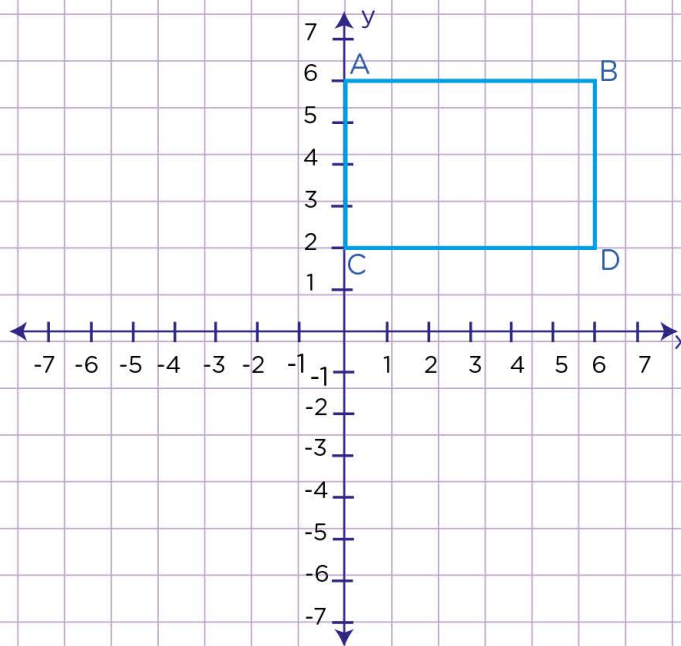


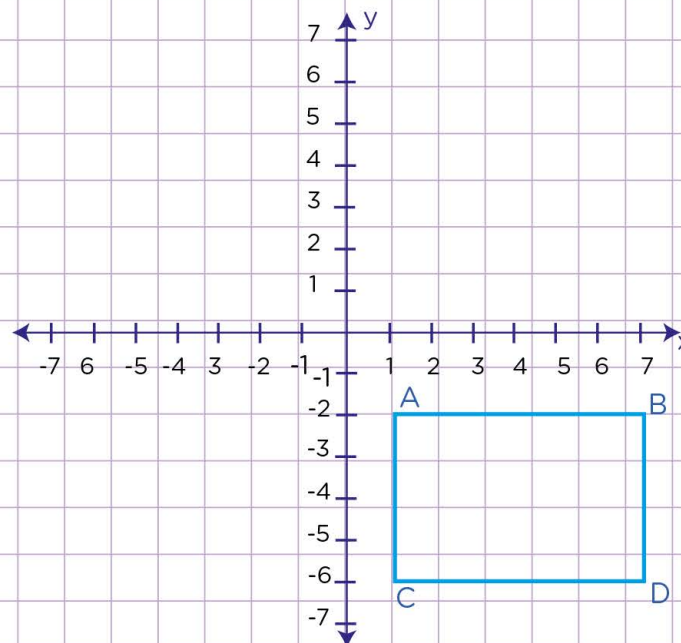
Name: Class:

Rotations: graph the image

1. Graph the image of a quadrilateral ABCD after a rotation of 180° counterclockwise around the origin.



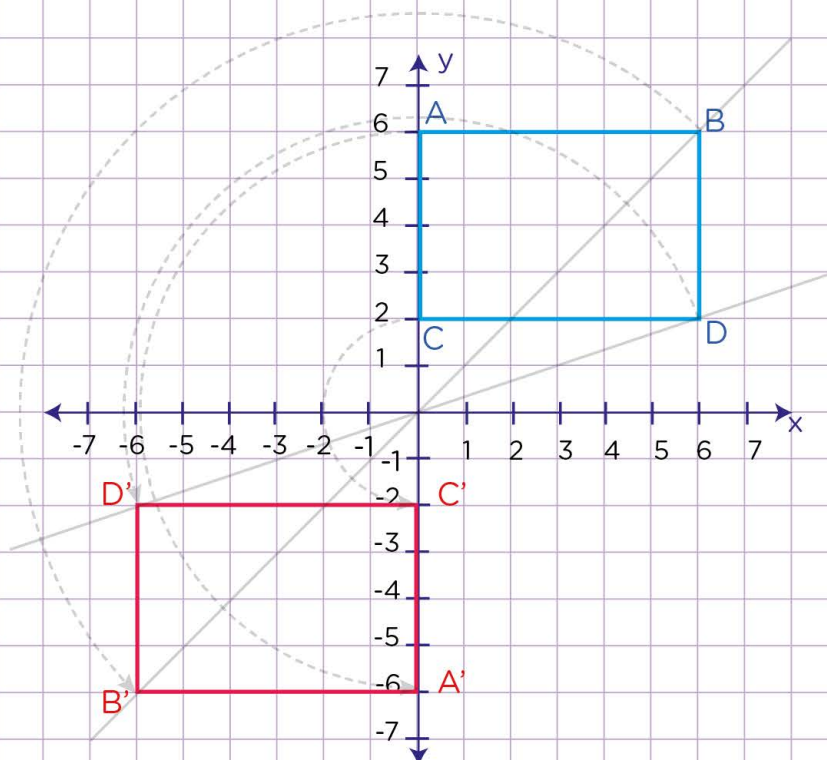
2. Graph the image of a quadrilateral ABCD after a rotation of 90° counterclockwise around the origin.



Name: Class:

Rotations: graph the image

1. Graph the image of a quadrilateral ABCD after a rotation of 180° counterclockwise around the origin.



Determine the fraction of turn, around the origin.

180° is $\frac{1}{2}$ of a full turn.

So, the rotation will turn the Quadrilateral $\frac{1}{2}$ of a full turn in the counterclockwise direction

Now, rotate each point (A,B,C,D) 180° counterclockwise to have (A',B',C',D').

You, will notice the points will move from positive y-axis to the negative y-axis.

So, the rotated points form a quadrilateral equal to A'B'C'D'