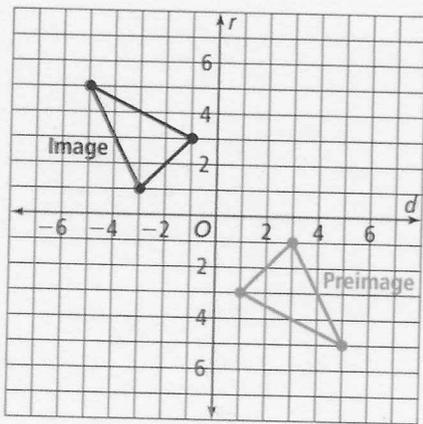


# Transformations

- 9) Segment  $PQ$  with endpoints  $P(2, -3)$  and  $Q(-3, 1)$  is reflected over the line  $y = x$ , find the coordinates of  $P'$  and  $Q'$  and write the rule for this transformation.
- 10) Segment  $TS$  with endpoints  $T(-4, 6)$  and  $S(2, -1)$  is reflected over the line  $y = -x$ , find the coordinates of  $T'$  and  $S'$  and write the rule for this transformation.
- 11) What transformation maps the Preimage onto the Image?



- A. Reflection over the line  $y = 0$
- B. Reflection over the line  $x = 0$
- C. Reflection over the line  $y = x$
- D. Reflection over the line  $y = -x$

## Rotations

- 12) Segment  $FG$  with endpoints  $F(1, -3)$  and  $G(2, -1)$  is rotated  $90^\circ$  clockwise about the origin, find the coordinates of  $F'$  and  $G'$  and write the rule for this transformation.
- 13) Segment  $XY$  with endpoints  $X(2, -3)$  and  $Y(-3, 1)$  is rotated  $90^\circ$  counterclockwise about the origin, find the coordinates of  $X'$  and  $Y'$  and write the rule for this transformation.
- 14) Segment  $PQ$  with endpoints  $P(2, -3)$  and  $Q(-3, 1)$  is rotated  $180^\circ$  about the origin, find the coordinates of  $P'$  and  $Q'$  and write the rule for this transformation.
- 15) Segment  $TS$  with endpoints  $T(-4, 6)$  and  $S(2, -1)$  is rotated  $270^\circ$  clockwise about the origin, find the coordinates of  $T'$  and  $S'$  and write the rule for this transformation.
- 16) Segment  $MN$  with endpoints  $M(7, -2)$  and  $N(-5, 4)$  is rotated  $270^\circ$  counterclockwise about the origin, find the coordinates of  $M'$  and  $N'$  and write the rule for this transformation.