

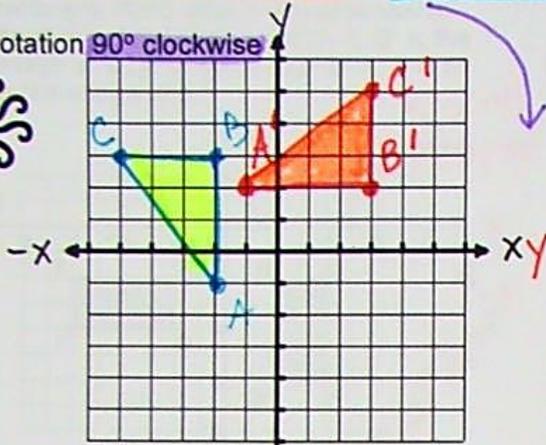
UNIT 7: TRANSFORMATIONS

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More Rotational Symmetry

Plot and label the figure on each coordinate grid. Make the transformation that is indicated. State the transformed coordinates and the general rule.

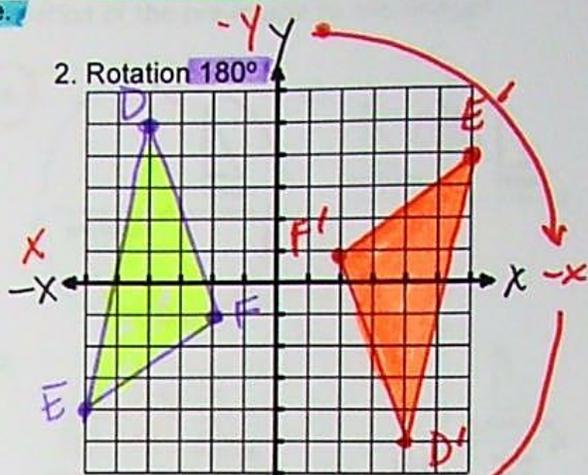
1. Rotation 90° clockwise



A (-2, -1) A' (3, 2)
 B (-2, 3) B' (3, 5)
 C (-5, 3) C' (3, 2)

General Rule: $(x, y) \rightarrow (y, -x)$

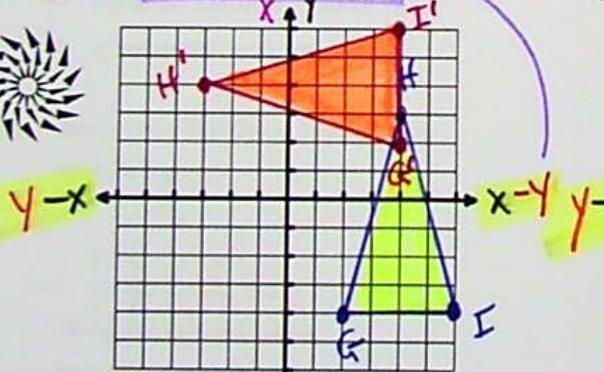
2. Rotation 180°



D (-4, 5) D' (4, -5)
 E (-6, -4) E' (6, 4)
 F (-2, -1) F' (2, 1)

General Rule: $(x, y) \rightarrow (-x, -y)$

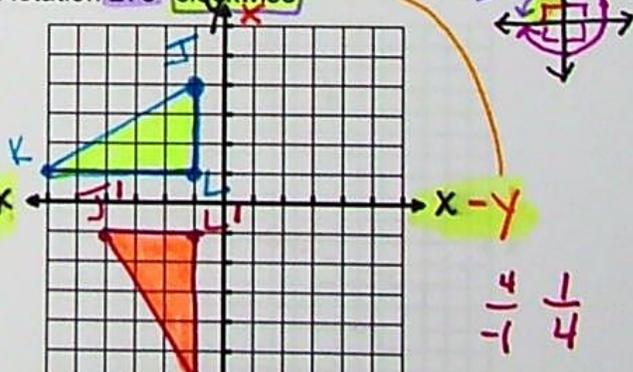
3. Rotation 90° counterclockwise



G (2, -4) G' (4, 2)
 H (4, 3) H' (-3, 4)
 I (6, -4) I' (4, 6)

General Rule: $(x, y) \rightarrow (-y, x)$

4. Rotation 270° clockwise



J (-1, 4) J' (-4, -1)
 K (-6, 1) K' (-1, -6)
 L (-1, 1) L' (-1, -1)

General Rule: $(x, y) \rightarrow (-y, -x)$

Homework is continued on the next page.