

Pop Quiz

Get out a scrap sheet of paper.

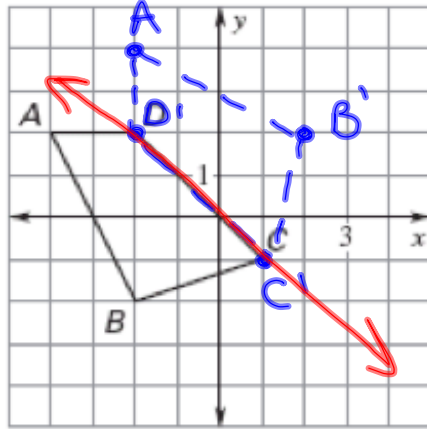
1. What is the pattern to *rotate* 90° ?
2. What is the pattern to *rotate* 180° ?
3. What is the pattern to *rotate* 270° ?
4. What is the pattern to *reflect* over the x-axis?
5. What is the pattern to *reflect* over the y-axis?

No Bellwork
02/27/2012

Review 9.3

Graph the reflection of the polygon in the given line.

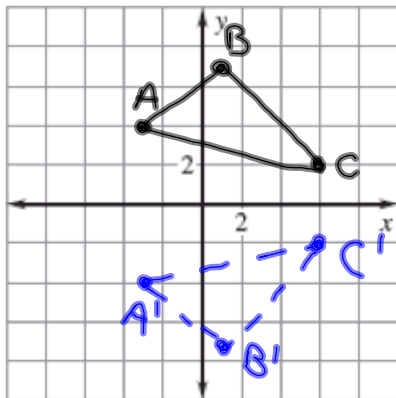
2. $y = -x$



- A (-4, 2)
- B (-2, -2)
- C (1, -1)
- D (-2, 2)
- A' (-2, 4)
- B' (2, 2)
- C' (1, -1)
- D' (-2, 2)

Graph the polygon and its image.

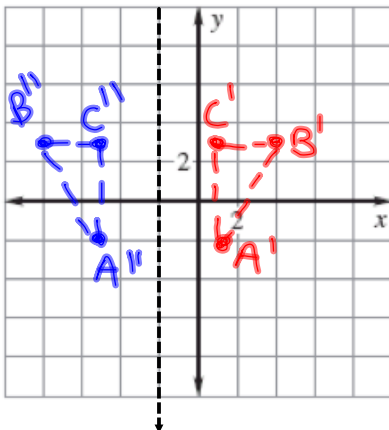
5. Reflect $\begin{bmatrix} -3 & 1 & 6 \\ 4 & 7 & 2 \end{bmatrix}$ in the x -axis.



$$\begin{bmatrix} -3 & 1 & 6 \\ -4 & -7 & -2 \end{bmatrix}$$

The vertices of $\triangle ABC$ are $A(-2, 1)$, $B(3, 4)$, and $C(3, 1)$. Reflect $\triangle ABC$ in the first line. Then reflect $\triangle A'B'C'$ in the second line. Graph $\triangle A'B'C'$ and $\triangle A''B''C''$.

10. In $y = x$, then in $x = -2$

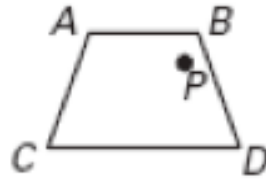


- | | |
|-----------|------------|
| A (-2, 1) | A' (1, -2) |
| B (3, 4) | B' (4, 3) |
| C (3, 1) | C' (1, 3) |

Review 9.4

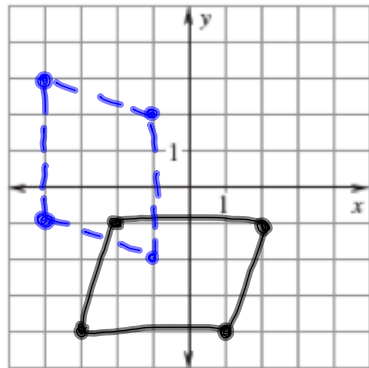
Trace the polygon and point P on paper. Then draw a rotation of the polygon the given number of degrees about P .

6. 135°



Find the image matrix that represents the rotation of the polygon about the origin. Then graph the polygon and its image.

14. $\begin{bmatrix} +3 & +2 & -2 & -1 \\ -4 & -1 & -1 & -4 \end{bmatrix}; 270^\circ$

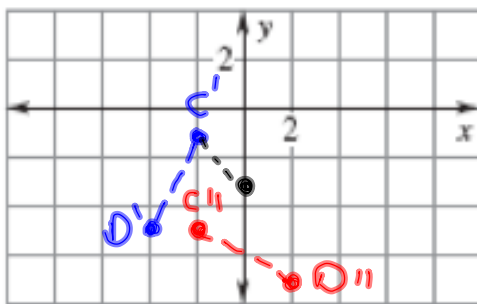


$$\begin{bmatrix} -4 & -1 & -1 & -4 \\ 3 & 2 & -2 & -1 \end{bmatrix}$$

The endpoints of CD are $C(2, 1)$ and $D(4, 5)$. Graph $C'D'$ and $C''D''$ after the given rotations.

16. **Rotation:** 180° about the origin

Rotation: 90° about $(0, -3)$



$$\begin{aligned} C & (2, 1) \\ D & (4, 5) \\ C' & (-2, -1) \\ D' & (-4, -5) \end{aligned}$$

Homework Assignment

Pg. 912-913 #14-22

Pg. 637-638 #10-14

Review 9.3-9.4

