

Name _____

Date _____

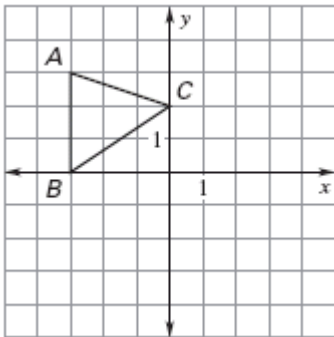
LESSON 9.3

practice B

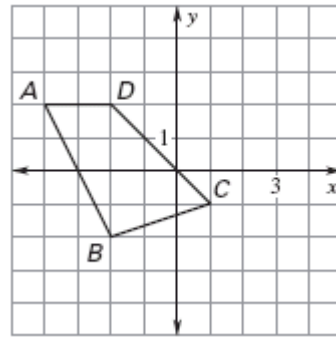
For use with pages 588–596

Graph the reflection of the polygon in the given line.

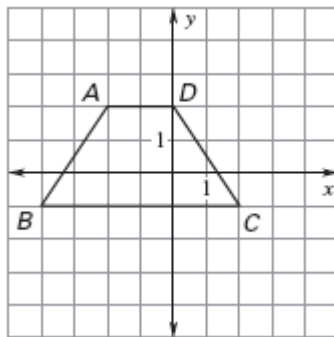
1. $x = -1$



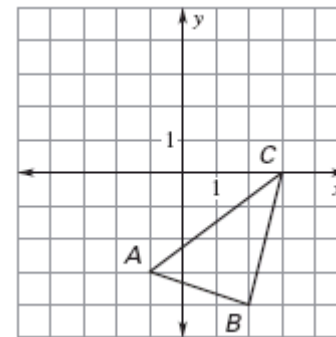
2. $y = -x$



2. $y = 1$



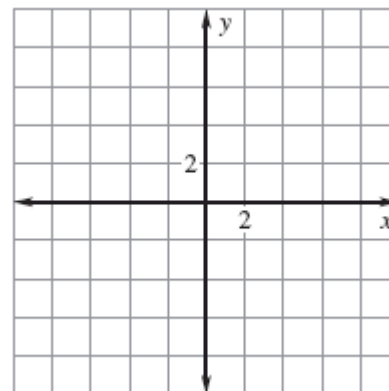
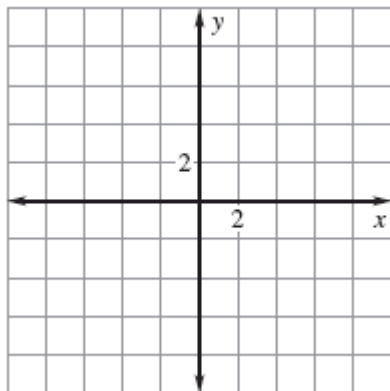
4. $y = x$



Use matrix multiplication to find the image. Graph the polygon and its image.

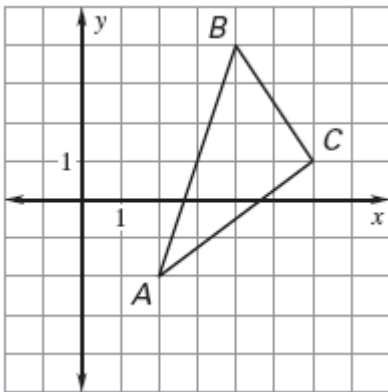
5. Reflect $\begin{matrix} A & B & C \\ \begin{bmatrix} -3 & 1 & 6 \\ 4 & 7 & 2 \end{bmatrix} \end{matrix}$ in the x -axis.

6. Reflect $\begin{matrix} A & B & C & D \\ \begin{bmatrix} 2 & 5 & 7 & 1 \\ 6 & 4 & -5 & -3 \end{bmatrix} \end{matrix}$ in the y -axis

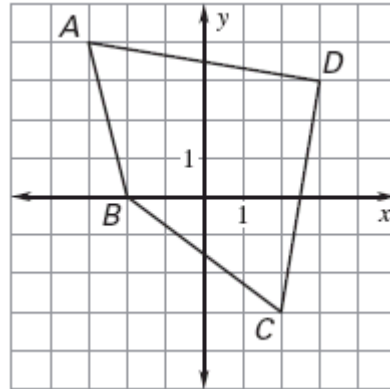


Write a matrix for the polygon. Then find the image matrix that represents the polygon after a reflection in the given line.

7. x-axis

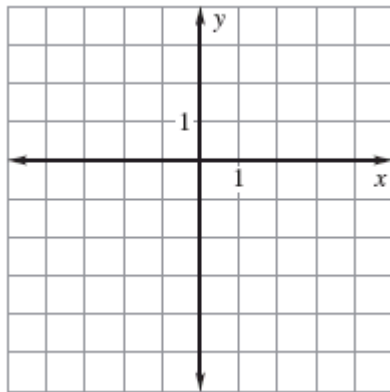


8. y-axis

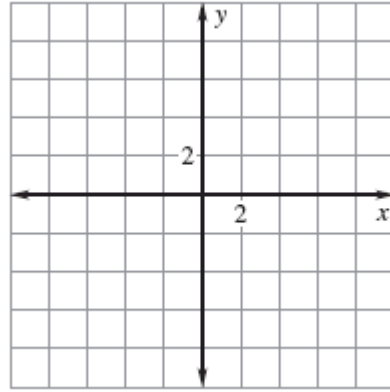


The vertices of $\triangle ABC$ are $A(-2, 1)$, $B(3, 4)$, and $C(3, 1)$. Reflect $\triangle ABC$ in the first line. Then reflect $\triangle A'B'C'$ in the second line. Graph $\triangle A''B''C''$ and $\triangle A'''B'''C'''$.

9. In $y = 1$, then in $y = -2$



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



11. In $x = 4$, then in $y = -1$

