

and drew a second rectangle. Then he added the transformation matrix

 $\begin{bmatrix} -3 & -3 & -3 \end{bmatrix}$ to R and drew a third 2 2 2 2

rectangle. Which describes the resulting figure?

- **A** Rectangle
- B Irregular hexagon
- **C** Square
- **D** Irregular octagon

- long with the center of the rectangle located at the origin. Which list of transformations will accomplish that?
 - **A** Rotate $F 90^{\circ}$ clockwise, rotate $F 90^{\circ}$ counterclockwise, translate F 5 units left and 3 units down
 - **B** Reflect *F* over the *x*-axis. translate F 5 units down, rotate $F 90^{\circ}$ counterclockwise
 - **C** Translate F 3 units left, translate F 3 units down, rotate F 90° clockwise
 - **D** Reflect F over the y-axis, reflect F over the x-axis, rotate F by 180°



2 2 2 2 rectangle. Which describes the resulting

figure?

- **A** Rectangle
- (B) Irregular hexagon
- **C** Square
- D Irregular octagon

counterclockwise **C** Translate F 3 units left, translate F 3 units down, rotate F 90° clockwise

B Reflect *F* over the *x*-axis. translate

F 5 units down, rotate F 90°

left and 3 units down

(**D**) Reflect F over the y-axis, reflect F over the x-axis, rotate F by 180°