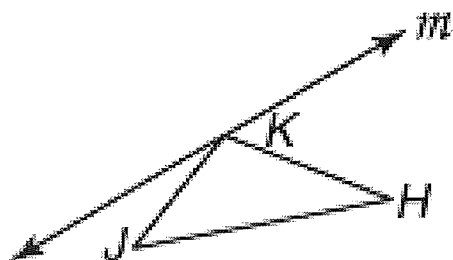
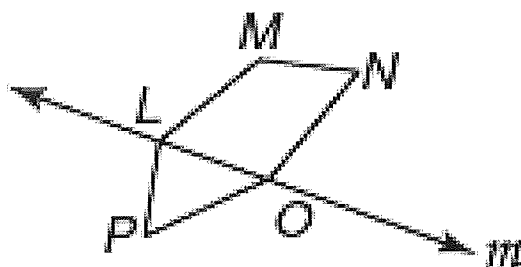


Draw the image of each figure under a reflection in line m .

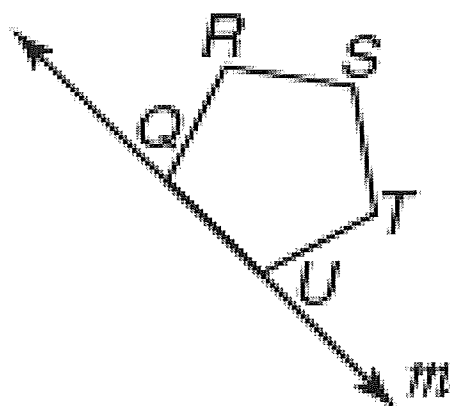
1.



2.



3.



a). Write the rule for each reflection.

b). Without graphing, find the points of the image under the given reflection.

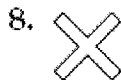
27. \overline{DJ} with endpoints $D(4, 4)$ and $J(-3, 2)$ in the y -axis

30. quadrilateral $GHIJ$ with vertices $G(-2, -2)$, $H(2, 0)$, $I(3, 3)$, and $J(-2, 4)$ in the origin

25. \overline{AB} with endpoints $A(2, 4)$ and $B(-3, -3)$ in the x -axis

31. $\triangle ABC$ with vertices $A(-3, -1)$, $B(0, 2)$, and $C(3, -2)$ in the line $y = x$

Determine how many lines of symmetry each figure has. Then determine whether the figure has point symmetry.

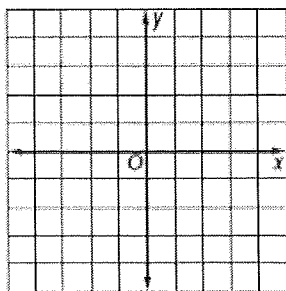


Graph each figure and its image under the given reflection.

10. Rule: _____

A' _____ B' _____ C' _____ D' _____

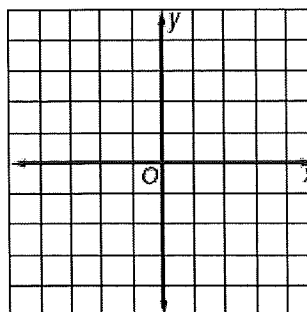
quadrilateral $ABCD$ with vertices $A(-3, 3)$, $B(1, 4)$, $C(4, 0)$, and $D(-3, -3)$ in the origin



11. Rule: _____

F' _____ G' _____ H' _____

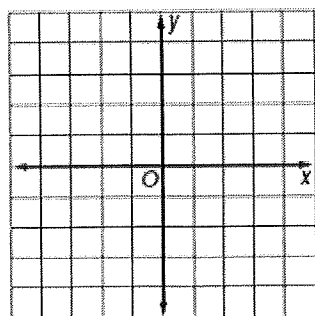
$\triangle FGH$ with vertices $F(-3, -1)$, $G(0, 4)$, and $H(3, -1)$ in the line $y = x$



12. Rule: _____

Q' _____ R' _____ S' _____ T' _____

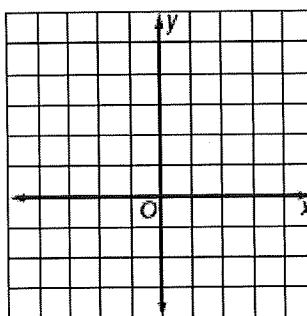
rectangle $QRST$ with vertices $Q(-3, 2)$, $R(-1, 4)$, $S(2, 1)$, and $T(0, -1)$ in the x -axis



13. Rule: _____

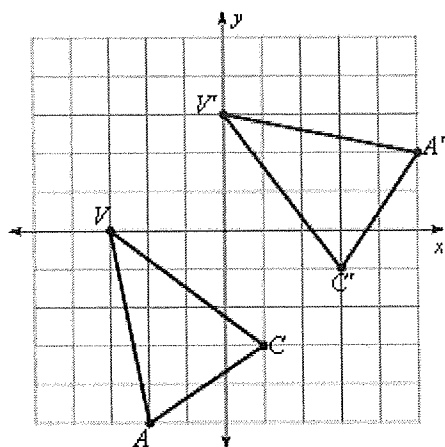
H' _____ I' _____ J' _____ K' _____

trapezoid $HIJK$ with vertices $H(-2, 5)$, $I(2, 5)$, $J(-4, -1)$, and $K(-4, 3)$ in the y -axis

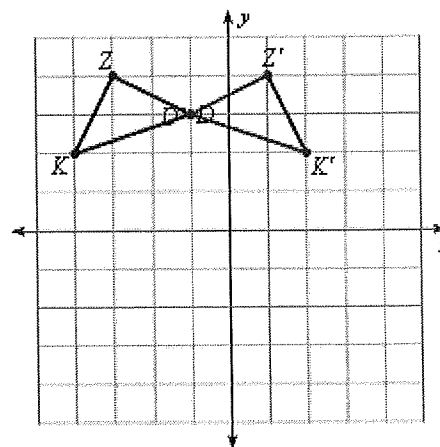


Write the rule to describe each transformation.

1)

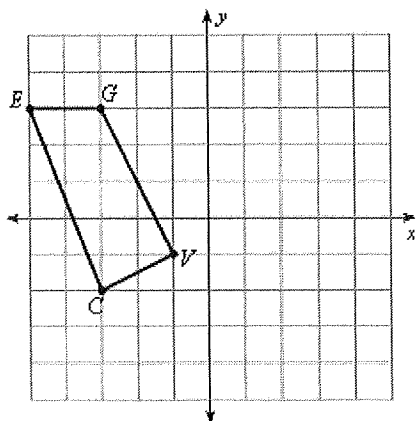


2)



Graph the image of the figure using the transformation given.

3) reflection across $x = -1$



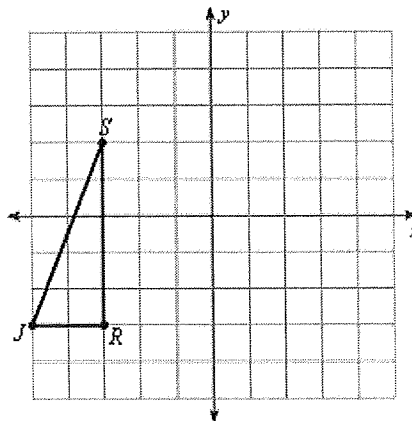
C' = _____

E' = _____

G' = _____

V' = _____

4) reflection across $y = 1$



J' = _____

S' = _____

R' = _____