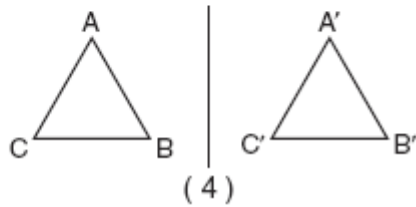
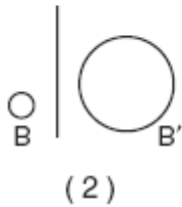
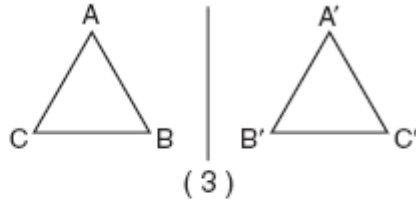
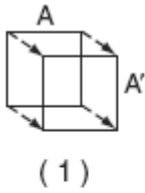
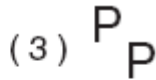


Reflections Worksheet

1. Ms. Brewer's art class is drawing reflected images. She wants her students to draw images reflected in a line. Which diagram represents a correctly drawn image?



2. Which image represents a line reflection?



3. Point A is located at (4,-7). The point is reflected in the x-axis. Its image is located at

- (1) (-4,7) (3) (4,7)
(2) (-4,-7) (4) (7,-4)

4. When the point (2,-5) is reflected in the x-axis, what are the coordinates of its image?

- (1) (-5,2) (3) (2,5)
(2) (-2,5) (4) (5,2)

5. What is the image of point (-3,7) after a reflection in the y-axis?

- (1) (3,7) (3) (3,-7)
(2) (-3,-7) (4) (7,-3)

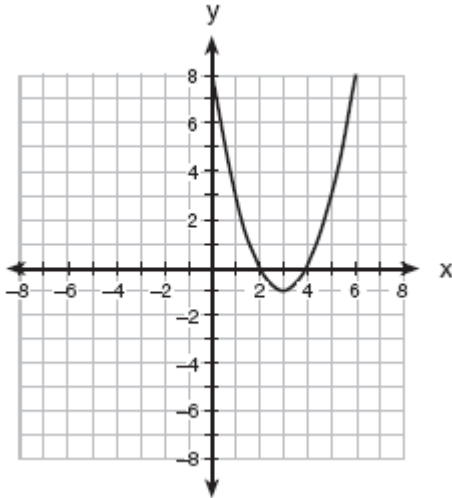
6. What is the image of point (-3,7) after a reflection in the y-axis?

- (1) (3,7) (3) (3,-7)
(2) (-3,-7) (4) (7,-3)

7. Point $(-2, 3)$ is reflected in the x -axis. In which quadrant does its image lie?

- (1) I (3) III
(2) II (4) IV

8. The parabola shown in the accompanying diagram undergoes a reflection in the y -axis.



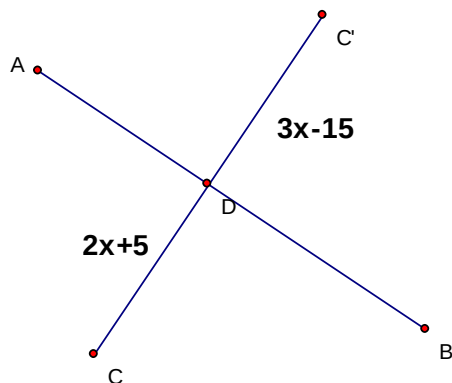
What will be the coordinates of the turning point after the reflection?

- (1) $(3, -1)$ (3) $(-3, 1)$
(2) $(3, 1)$ (4) $(-3, -1)$

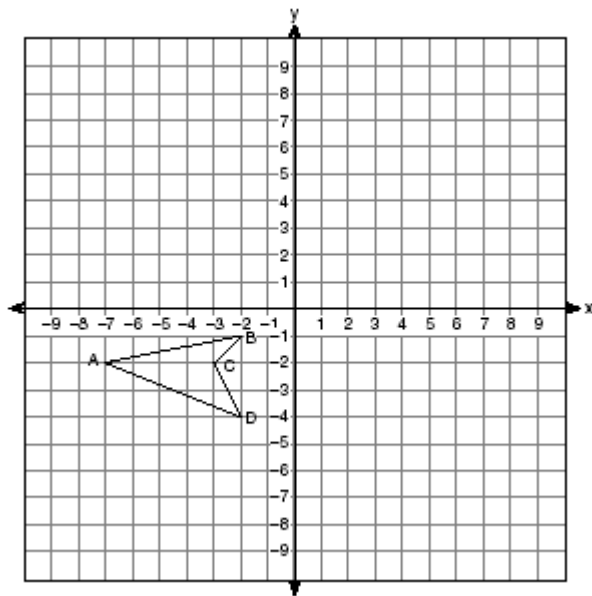
9. Point $A(1, 0)$ is a point on the graph of the equation $y = x^2 - 4x + 3$. When point A is reflected across the axis of symmetry, what are the coordinates of its image, point A' ?

- (1) $(-1, 2)$ (3) $(2, -1)$
(2) $(0, 3)$ (4) $(3, 0)$

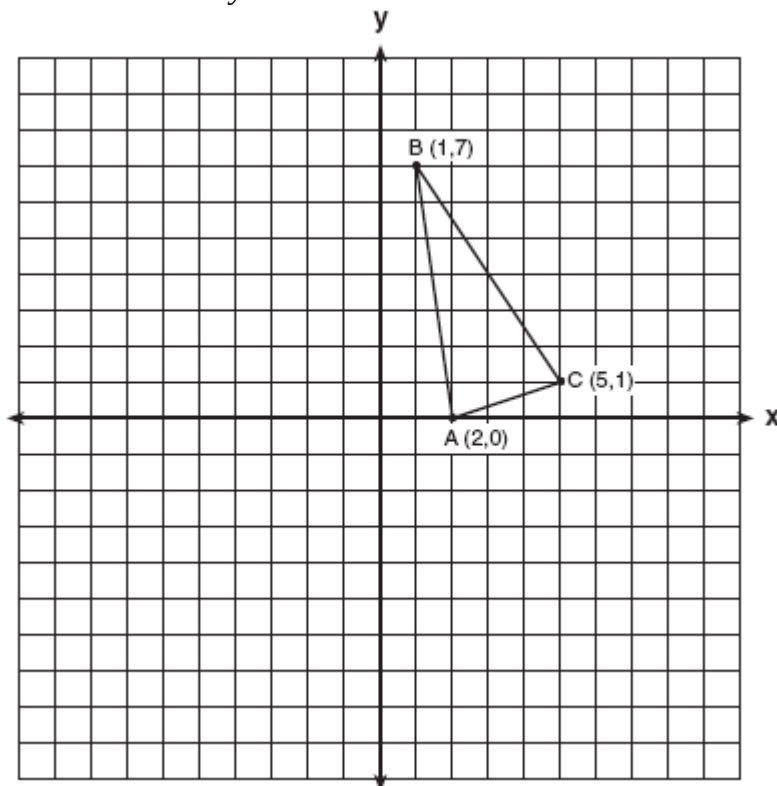
10. In the diagram below, point C is reflected in line segment AB to create C' . $CD = 2x + 5\text{cm}$ and $C'D = 3x - 15\text{cm}$. Find the distance from C to C' .



11. On the accompanying set of axes, draw the reflection of $ABCD$ in the y -axis. Label and state the coordinates of the reflected figure.



12. Triangle ABC below has coordinates $A(2,0)$, $B(1,7)$, and $C(5,1)$. On the accompanying set of axes, graph, label, and state the coordinates of $\triangle A'B'C'$, the reflection of $\triangle ABC$ in the y -axis.



13. Triangle SUN has coordinates $S(0,6)$, $U(3,5)$, and $N(3,0)$. On the accompanying grid, draw and label $\triangle SUN$. Then, graph and state the coordinates of $\triangle S'U'N'$, the image of $\triangle SUN$ after a reflection in the y -axis.

