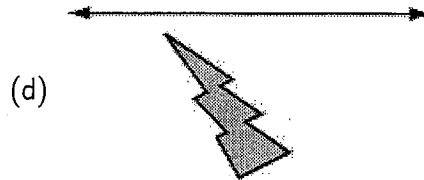
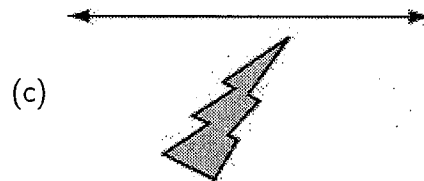
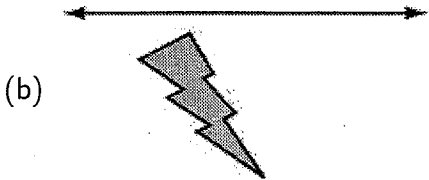
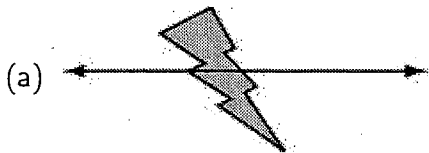
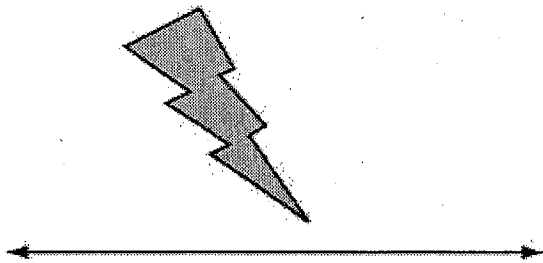


Review Worksheet #25

Section 1 - Multiple Choice

1)

What would the lightning bolt look like if it were reflected over the line?



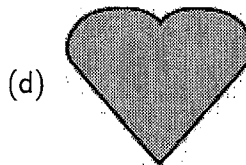
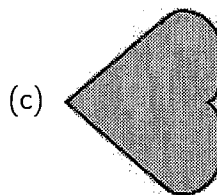
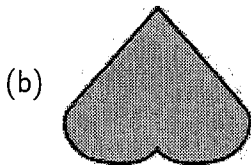
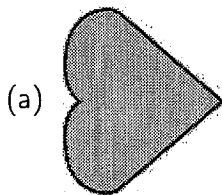
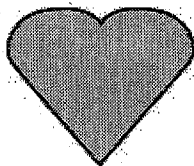
2) If the coordinates of $\triangle FJT$ are $(0, 4)$, $(7, 0)$, and $(0, 0)$, what would the coordinates be when it is reflected over the x -axis?

(a) $(0, 4)$, $(-7, 0)$, and $(0, 0)$ (c) $(0, -4)$, $(7, 0)$, and $(0, 0)$

(b) $(-7, 0)$, $(-4, 0)$, and $(0, 0)$ (d) $(7, 0)$, $(0, 0)$, and $(0, 4)$

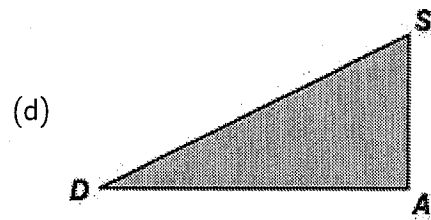
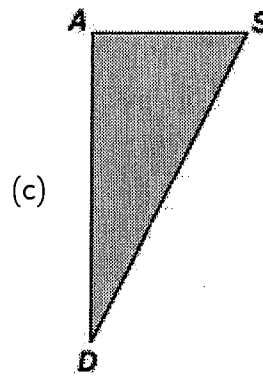
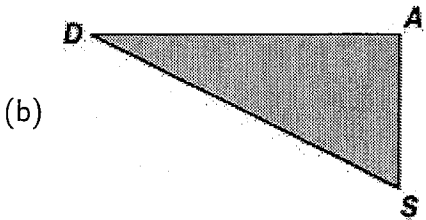
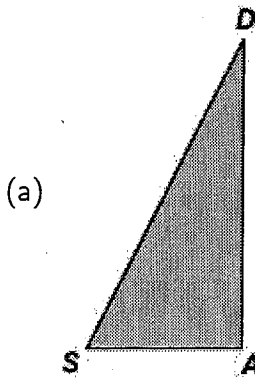
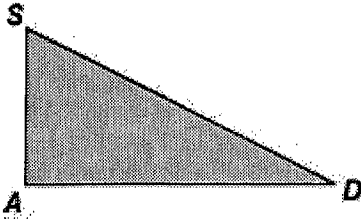
3)

What would the shape below look like if it were rotated 180° ?

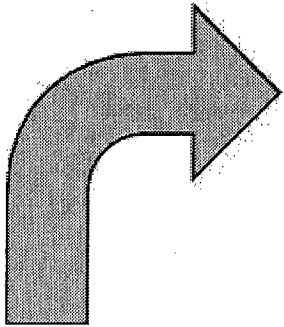


4)

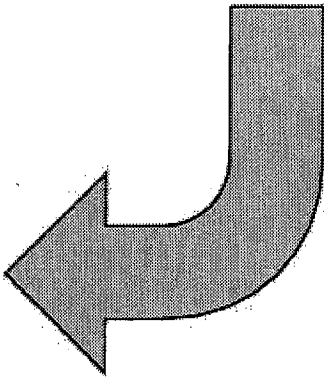
If $\triangle ASD$ is rotated 90° to the right, what will it look like?



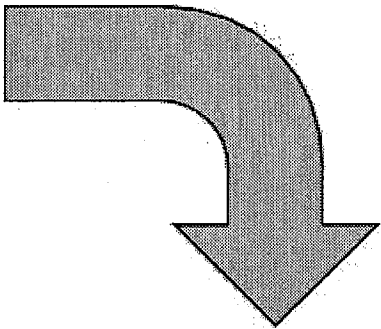
5) How would the figure below look if it were rotated 270° to the right?



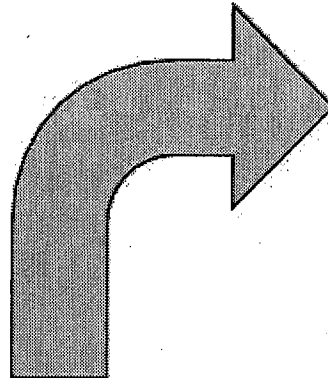
(a)



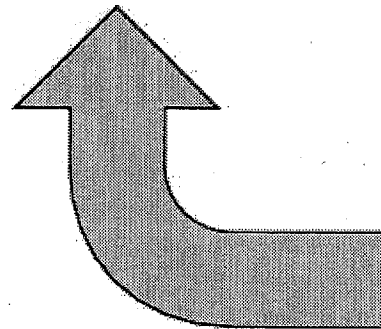
(b)



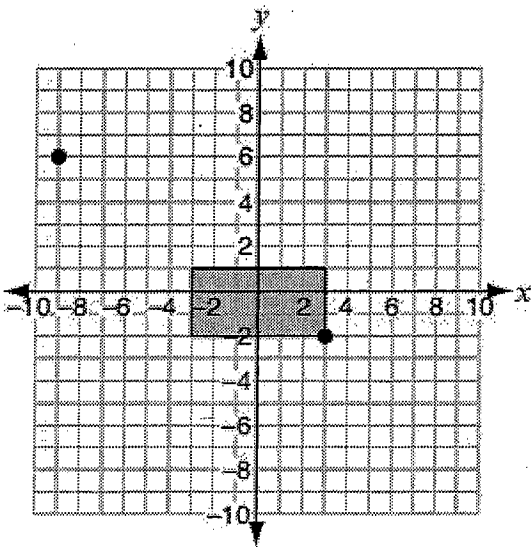
(c)



(d)



6) Which of the following transformations would relocate the point at $(3, -2)$ to $(-9, 6)$?

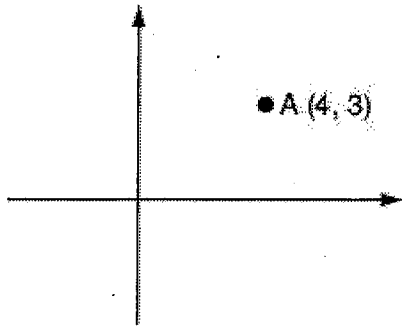


- (a) dilating by a factor of 3
- (b) dilating by a factor of $\frac{1}{3}$
- (c) translating left 6 and up 4
- (d) translating left 12 and up 8

7) Eugene has drawn point A on his graph. Its coordinates are $(-4, 5)$. He will now reflect point A over the y -axis. What will be the coordinates for the reflected point?

- (a) $(-4, -5)$
- (b) $(4, -5)$
- (c) $(4, 5)$
- (d) cannot be determined from this information

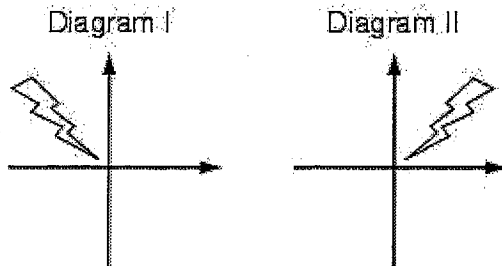
8) If point A were reflected over the y -axis, what would be its new coordinates?



- (a) $(4, -3)$
- (b) $(-4, 3)$
- (c) $(-4, -3)$
- (d) $(-3, -4)$

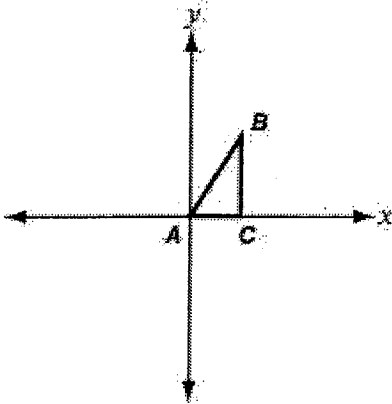
9)

Which of the following transformations is the correct one to create Diagram II from Diagram I?



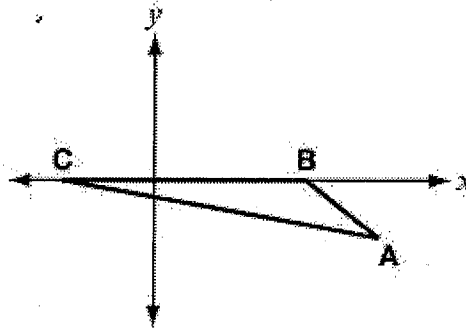
- (a) rotation
- (b) reflection
- (c) expansion
- (d) slide

10) If $\triangle ABC$ were rotated 90° counterclockwise about the origin, in which quadrant would point B now be located?



- (a) Quadrant I
- (b) Quadrant II
- (c) Quadrant III
- (d) Quadrant IV

11) If $\triangle ABC$ were reflected over the x -axis, what would be the new coordinates for point A ?



- (a) $(8, 5)$
- (b) $(8, -5)$
- (c) $(5, 8)$
- (d) $(8, 0)$

12) If the coordinates of $\triangle KJF$ are $(2, 3)$, $(1, 0)$, and $(6, 0)$, what would the coordinates be when it is reflected over the x -axis?

- (a) $(2, -3)$, $(1, 0)$, and $(6, 0)$
- (b) $(-2, 3)$, $(1, 0)$, and $(6, 0)$
- (c) $(-2, -3)$, $(-1, 0)$, and $(-6, 0)$
- (d) $(-2, 3)$, $(1, 0)$, and $(-6, 0)$

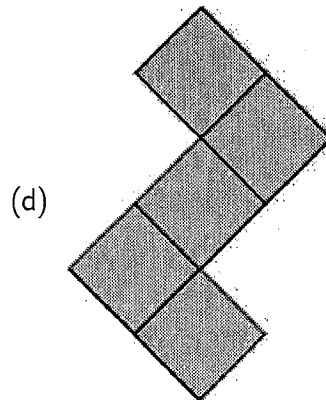
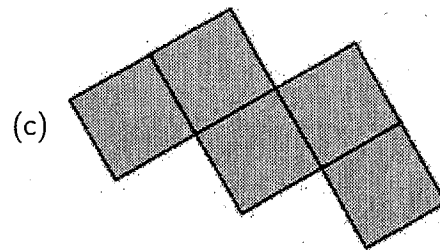
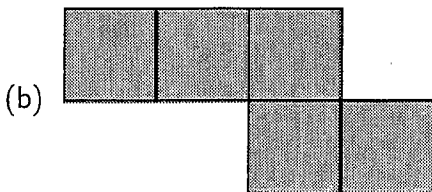
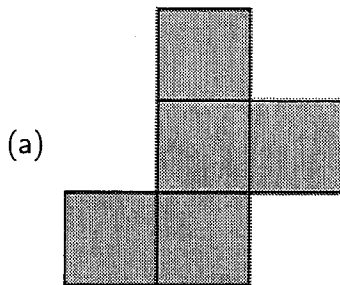
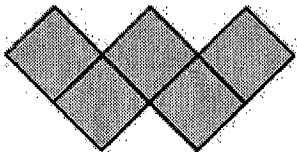
13)

Which figure below shows what the letter "d" would look like if it were reflected over the line?

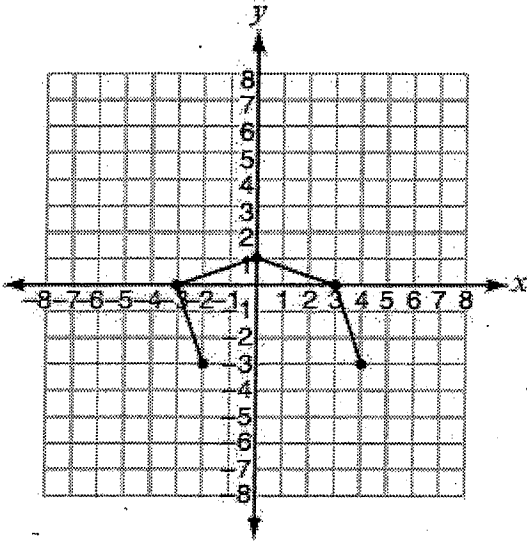


- (a) d
- (b) p
- (c) q
- (d) b

14) Five squares are arranged as shown. Which of the four arrangements below can be rotated to look exactly like this group of squares?

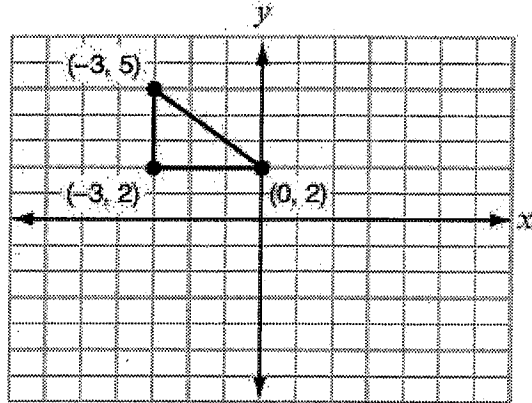


15) Which coordinate pair represents the location for the sixth vertex of this regular hexagon?



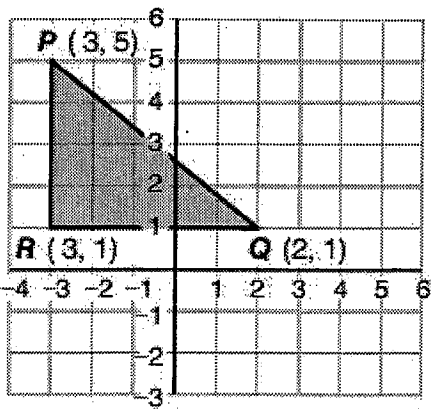
- (a) (4, 1)
- (b) (1, -4)
- (c) (-4, 1)
- (d) (1, 4)

16) If the right triangle is reflected across the y-axis, what would be the coordinates of the vertex of the right angle?



- (a) (3, -2)
- (b) (3, 2)
- (c) (-3, -2)
- (d) (-3, 2)

17) If $\triangle PQR$ is translated three units to the right and two units down, what will its new coordinates be?



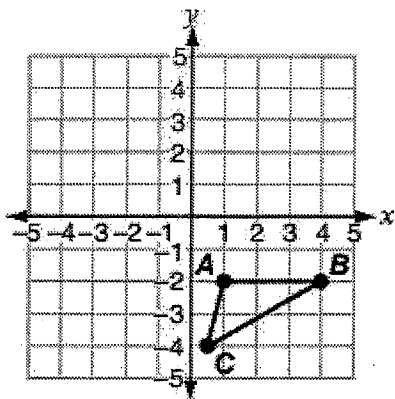
(a) $(2, 5), (2, 1), (7, 1)$

(c) $(0, 3), (5, -1), (0, -1)$

(b) $(0, 7), (0, 3), (5, 2)$

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

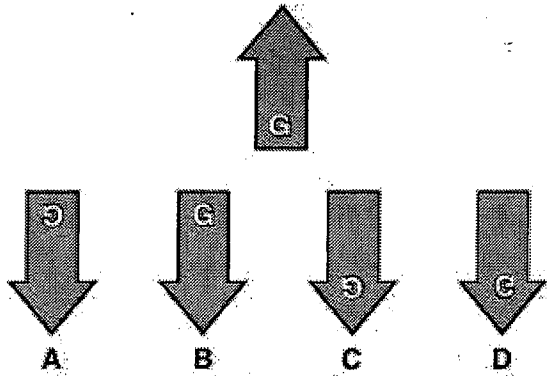
18) If figure ABC were reflected over the x -axis, in which quadrant of the coordinate plane would the resulting figure lie?



- (a) I
- (b) II
- (c) III
- (d) IV

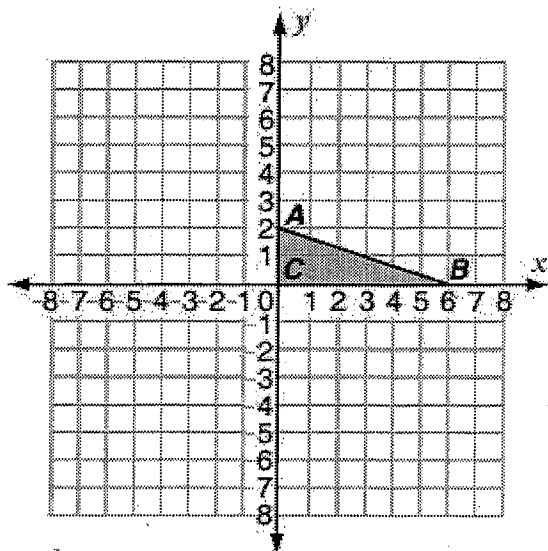
19)

Which shows the figure after it has been rotated 180° ?



- (a) A
- (b) B
- (c) C
- (d) D

20) A translation is performed on the triangle shown so that point A is relocated to $(0, 4)$. Where will point B be relocated?



- (a) $(6, 2)$
- (b) $(6, 4)$
- (c) $(12, 0)$
- (d) $(36, 0)$