Translations and Reflections

Study Guide Test 1

Graph the image of the figure using the transformation given.

1) translation: 1 unit up

2) translation: 5 units up

Write a rule to describe each transformation.

3) 

4) 

Graph the image of the figure using the transformation given.

5) translation: \((x, y) \rightarrow (x, y + 1)\)

6) translation: \((x, y) \rightarrow (x, y + 3)\)
Write a rule to describe each transformation.

7)

Graph the image of the figure using the transformation given.

9) reflection across the y-axis

10) reflection across $y = x$

Write a rule to describe each transformation.

11)

12)
Graph the image of the figure using the transformation given.

13) reflection across $y = 2$

14) translation: 4 units left and 2 units up

15) translation: 2 units left and 2 units down

16) translation: 1 unit right and 1 unit up

Write a rule to describe each transformation.

17)

18)