

Translations









A(4,3) x-coordinate y-coordinate





A(5,2) B(-3,-4) C(-1,5) D(3,-5) E(4,6) F(0,0) G(4,0) H(0,-3)

EXPLORING

Vocabulary Translation

Sliding a figure from one place to another



Translations on a Coordinate





Rule: (x,y)→(x+6, y-5)



Tell whether the right figure is a translation of the left figure.



3. Translate the triangle 3 units left and 2 units up. What are the coordinates of the image?





The vertices of a triangle are A(-2, 0), B(0, 3), and C(2, 2). Draw the figure and its image after the translation.

4. 4 units down





The vertices of a triangle are A(-2, 0), B(0, 3), and C(2, 2). Draw the figure

and its image after the translation.

5. 2 units right and 1 unit up





6. Describe the translation from the solid line figure to the dashed line figure.

