**11.2: Translations**

Give an example of a translation you could find in your home that is also a tessellation. Explain how it is a translation.

Tell whether the shaded figure is a translation of the nonshaded figure.

 1.  2. 

 3.  4. 

Transformation: changes a figure into another figure, and the new figure is called the image.

Translation: a transformation in which a figure slides but does not turn. Every point moves the same distance and in the same direction.

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

 1.  2. 

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

The vertices of a triangle are  Draw the figure and its image after the translation.

 4. 4 units down

 5. 2 units right and 1 unit up

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

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 7. In Exercise 6, describe the translation from the dashed line figure to the solid line figure.