**Unit 1 Transformations**

**Definitions**

Transformations: It is a change that occurs that \_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a specific \_\_\_\_\_\_\_\_\_\_\_\_\_\_ onto an image. These are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: The position of the shape \_\_\_\_\_\_\_\_\_\_\_ the change is made.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: The position of the shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the change is made.

Reflections:

Translations:

Rotations:

Dilations:

**Translations**

If a point is moved “a” units to the \_\_\_\_\_\_\_\_\_\_\_\_ and “b” units \_\_\_\_\_\_\_\_\_\_\_\_\_, then the translated point will be at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

If a point is moved “a” units to the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and “b” units \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the translated point will be at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Image A translates to image B by moving to the right 3 units and down 8 units.

A (2, 5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Vector Notation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Practice:

 Translation:

 Pre-image-

 Image-



 Translation:

 Pre-image-

 Image-



 Translation:

 Pre-image-

 Image-

