**Applying Transformations Review Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour:\_\_\_\_\_\_\_**

1) Preform two different transformations on the given figure RPVJ and write the new coordinates for R”P”V”J”

a-Translate the given picture 3 units right and 4 units up

b- Rotate 180 degrees

2) Write a rule describing the below transformations



3) Write the rules of the following transformations:

a- Reflect across x-axis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b- Reflect across y-axis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c- Rotate 180 degrees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d- Translate 2 units down and 4 units to the right \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e- Dilation by a scale factor of 8 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4) **Reflect the given image across x = -2**

**5) Reflect the given image across y = -4**

**6) Describe the series of transformations preformed in the below picture and write a rule describing them**

7.

