Geometry Topic 3: Dilations Homework Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Draw a dilation of scale factor 0.5. Write the coordinates of the pre-image and image below.

Then write a transformation rule.



 Coordinates

X \_\_\_\_\_\_\_\_\_\_ X’ \_\_\_\_\_\_\_\_\_\_

F \_\_\_\_\_\_\_\_\_\_ F’ \_\_\_\_\_\_\_\_\_\_

P \_\_\_\_\_\_\_\_\_\_ P’ \_\_\_\_\_\_\_\_\_\_

Rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Draw a dilation of scale factor 2. Write the coordinates of the pre-image and image below.

Then write a transformation rule.



 Coordinates

G \_\_\_\_\_\_\_\_\_\_ G’ \_\_\_\_\_\_\_\_\_\_

K \_\_\_\_\_\_\_\_\_\_ K’ \_\_\_\_\_\_\_\_\_\_

B \_\_\_\_\_\_\_\_\_\_ B’ \_\_\_\_\_\_\_\_\_\_

Rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write a rule to describe each transformation.**

3. Rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. Rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

