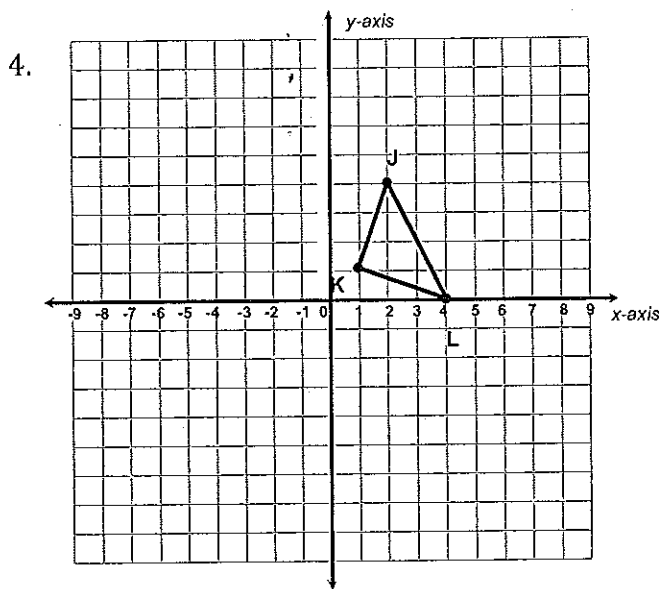


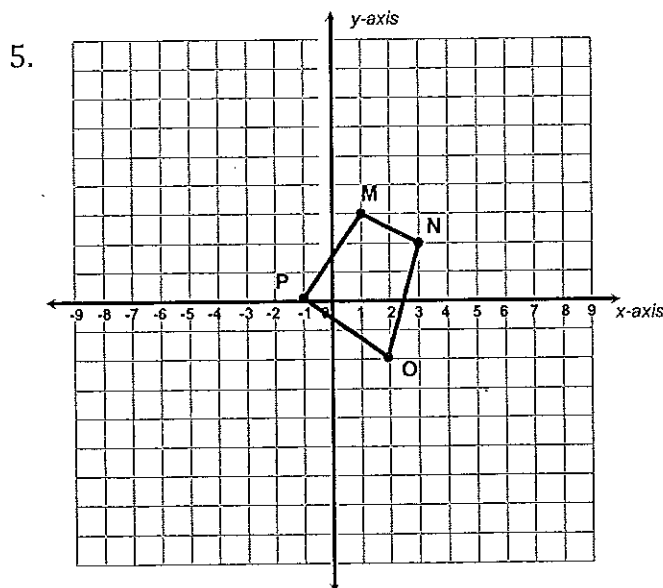
Directions: Answer the following questions to the best of your ability. For the y-axis, use the same scaling as the x-axis

- In Math, the word dilate means to _____ or _____ a figure.
- If a scale factor is less than 1, then your figure gets _____.
- If a scale factor is greater than 1, then your figure gets _____.



Graph the dilated image of triangle JKL using a scale factor of 2 and (0,0) as the center of dilation.

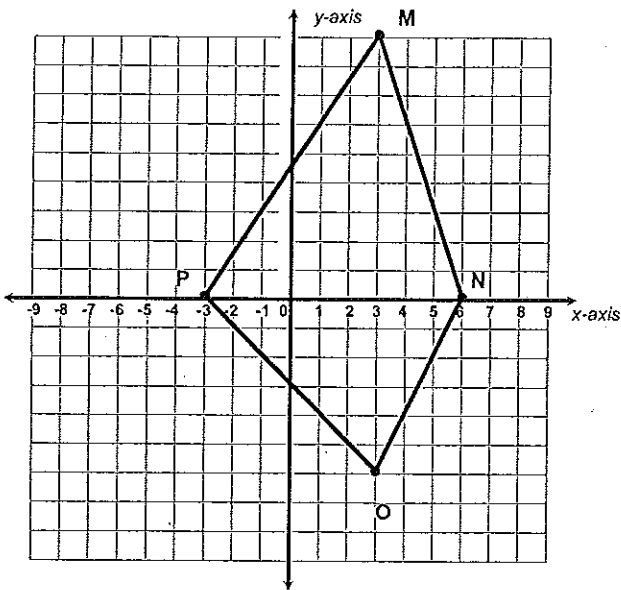
- | | |
|----------|-----------|
| J: _____ | J': _____ |
| K: _____ | K': _____ |
| L: _____ | L': _____ |



Graph the dilated image of quadrilateral MNOP using a scale factor of 3 and the origin as the center of dilation.

- | | |
|----------|-----------|
| M: _____ | M': _____ |
| N: _____ | N': _____ |
| O: _____ | O': _____ |
| P: _____ | P': _____ |

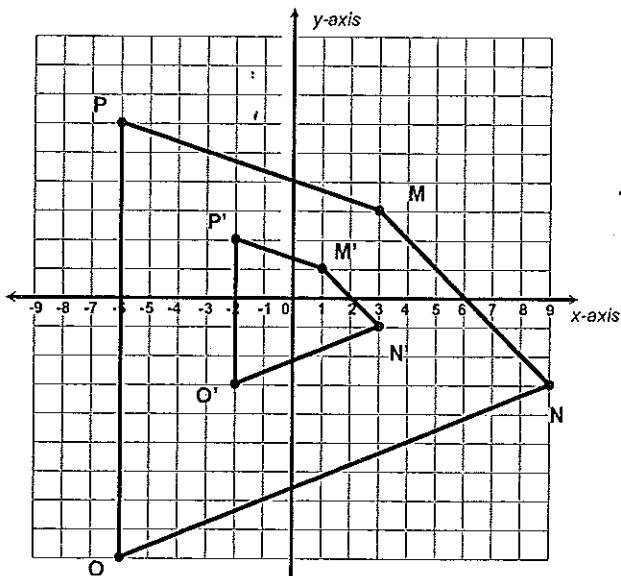
7.



Graph the dilated image of quadrilateral MNOP using a scale factor of $\frac{1}{3}$ and the origin as the center of dilation.

M: _____ M': _____
 N: _____ N': _____
 O: _____ O': _____
 P: _____ P': _____

8.



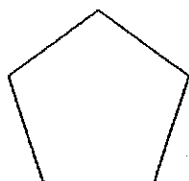
Describe the dilation of quadrilateral MNOP, using the origin as the center.

For each shape below, determine if it has reflection symmetry and/or rotation symmetry.

If it has reflection symmetry, draw all lines of symmetry.

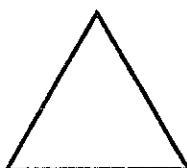
If it has rotation symmetry, calculate the angle of rotation.

8) Regular Pentagon



Degree of Rotation = _____

9) Isosceles triangle



Degree of Rotation = _____

10) Parallelogram



Degree of Rotation = _____