Dilations Worksheet

Graph the image of the figure using the transformation given. Make a chart of the pre-image coordinates, mapping and compute the new coordinate values, and graph the new image.

1) dilation of \( \frac{1}{4} \)

2) dilation of 2.5

3) dilation of 1.5

4) dilation of 0.5
Find the coordinates of the vertices of each figure after the given transformation and graph the pre-image.

5) dilation of 1.5

6) dilation of 0.25

7) dilation of \(\frac{1}{2}\)

8) dilation of 0.5

Write a rule to describe each transformation.

9)

10)
Find the coordinates of the vertices of each figure after the given transformation.

13) dilation of 1.5

A) $P(-1, 0.5), B(-1, 1), I(1.5, 0), M(0.5, -0.5)$
B) $P(-3, 1.5), B(-3, 3), I(4.5, 0), M(1.5, -1.5)$
C) $B(2, 2), I(-3, 0), M(-1, -1), P(2, 1)$
D) $P(-4, 3), B(-4, 4), I(1, 2), M(-1, 1)$
E) $P(0, -2), B(0, -1), I(5, -3), M(3, -4)$