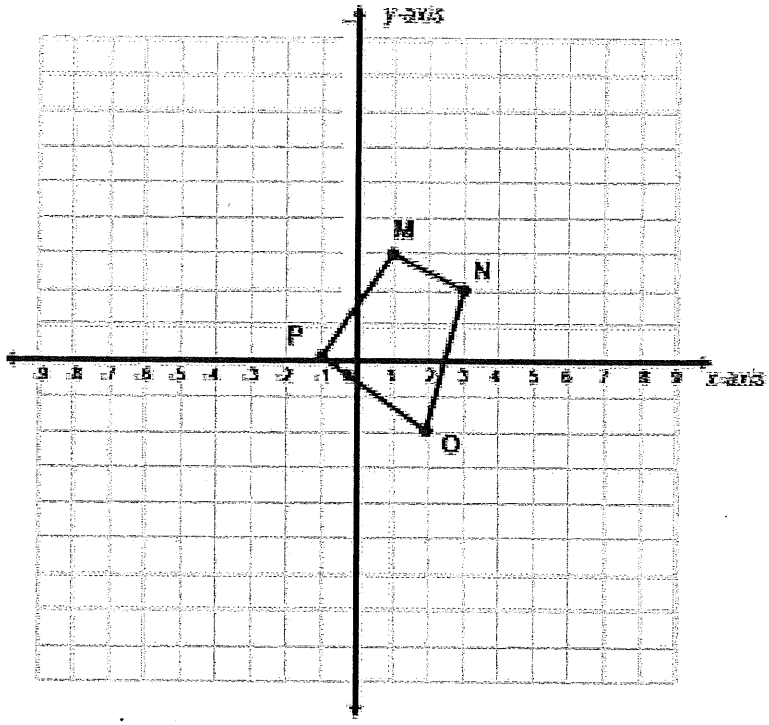
HW Quiz #5 Class Review

1. Graph a dilated image of quadrilateral MNOP using a scale factor of 2 and (2,4) as the center of dilation.



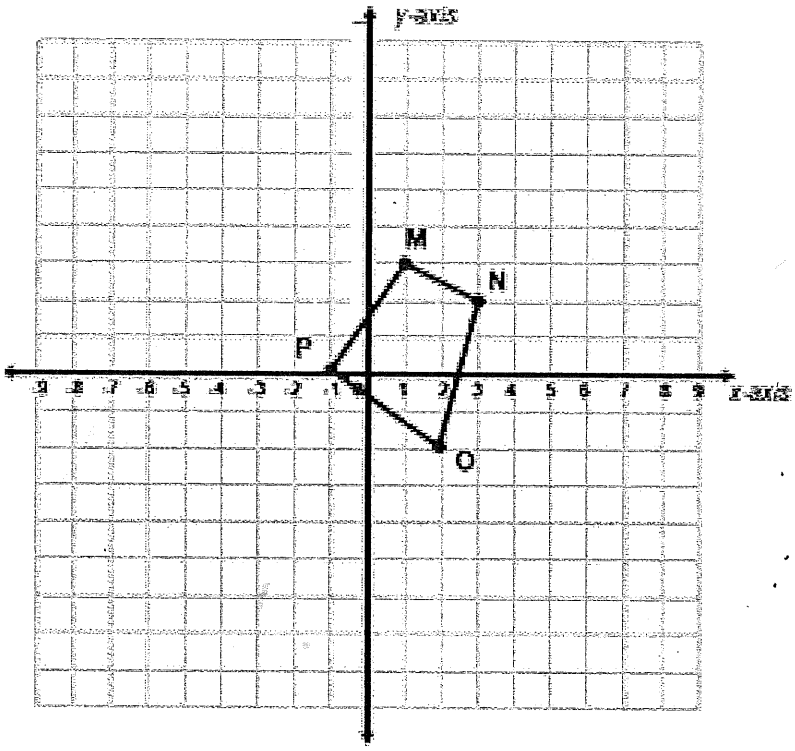
M: _____ M': _____

N: _____ N': _____

O: _____ O': _____

P: _____ P': _____

2. Graph a dilated image of quadrilateral MNOP using a scale factor of 1/2 and using the origin as the center of dilation.



M: _____ M': _____

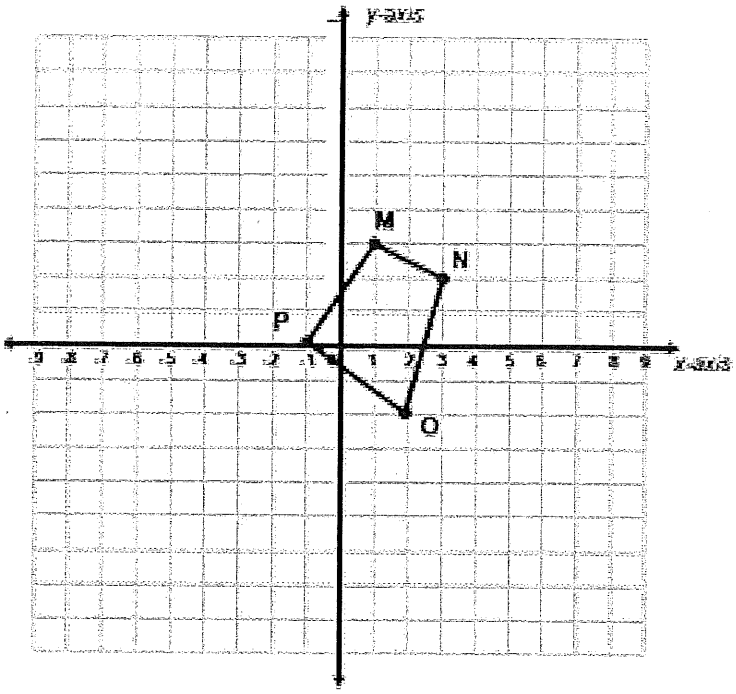
N: _____ N': _____

O: _____ O': _____

P: _____ P': _____

Find the coordinates of the vertices after the transformation:

3. Reflection across the line x = -2



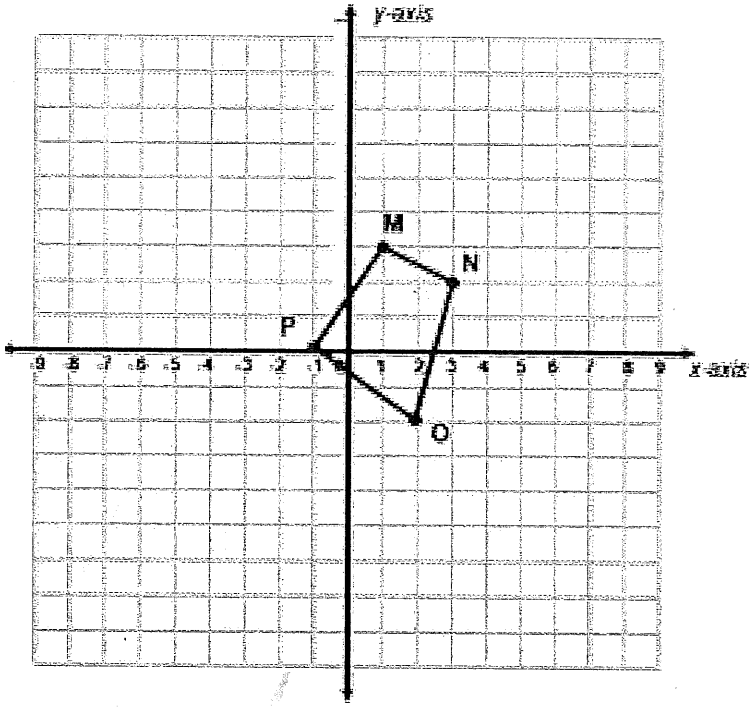
M: _____ M': _____

N: _____ N': _____

O: _____ O': _____

P: _____ P': _____

4. Rotation of 180° about the origin



M: _____ M': _____

N: _____ N': _____

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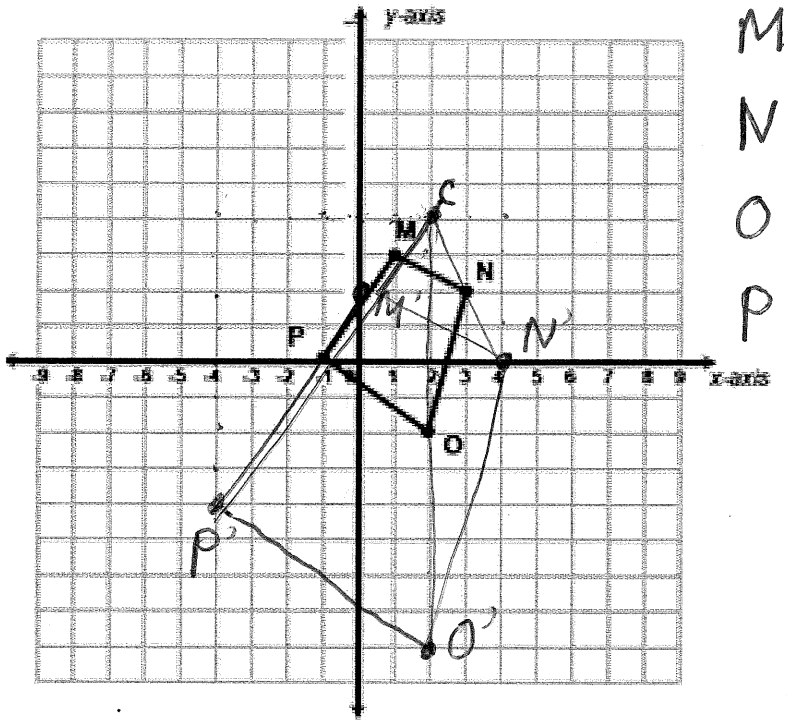


$M(\leftarrow 1, \downarrow 1) \rightarrow M'(\leftarrow 2, \downarrow 2)$

$N(\rightarrow 1, \downarrow 2) \rightarrow N'(\rightarrow 2, \downarrow 4)$

$O(0, \downarrow 6) \rightarrow O'(0, \downarrow 12)$

$P(\leftarrow 3, \downarrow 4) \rightarrow P'(\leftarrow 6, \downarrow 8)$

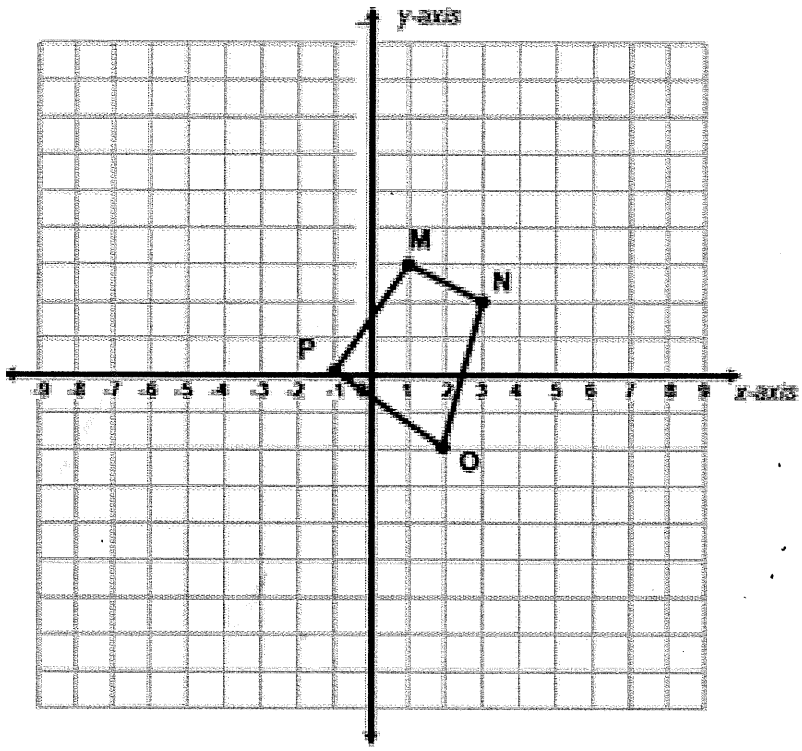
M: (1,3) M': (0,2)

N: (3,2) N': (4,6)

O: _____ O': _____

P: _____ P': _____

2. Graph a dilated image of quadrilateral MNOP using a scale factor of 1/2 and using the origin as the center of dilation.



M: _____ M': _____

N: _____ N': _____

O: _____ O': _____

P: _____ P': _____

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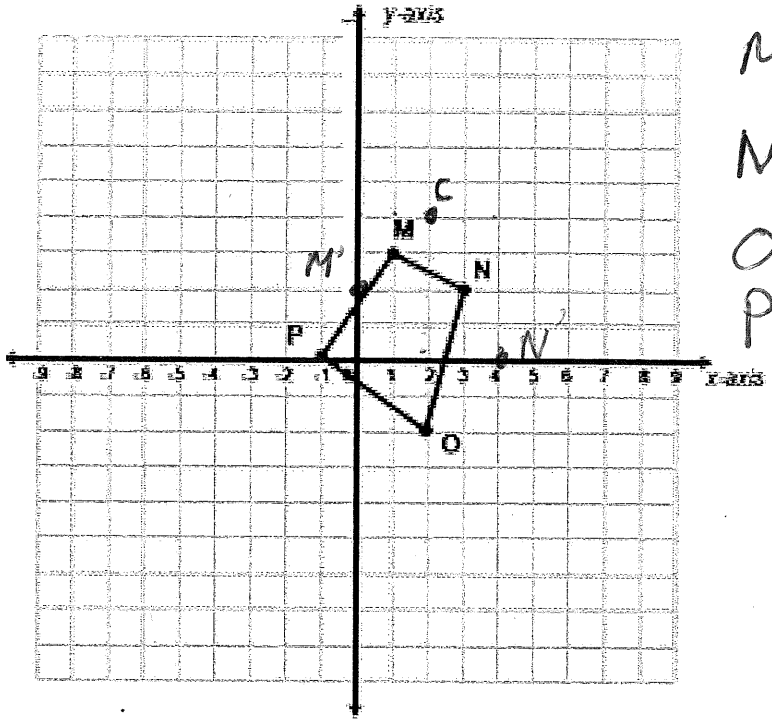
1. Graph a dilated image of quadrilateral MNOP using a scale factor of 2 and (2,4) as the center of dilation.



$M(-1,-1) \rightarrow M'(-2,-2)$

$N(1,-2) \rightarrow N'(2,-4)$

O

P

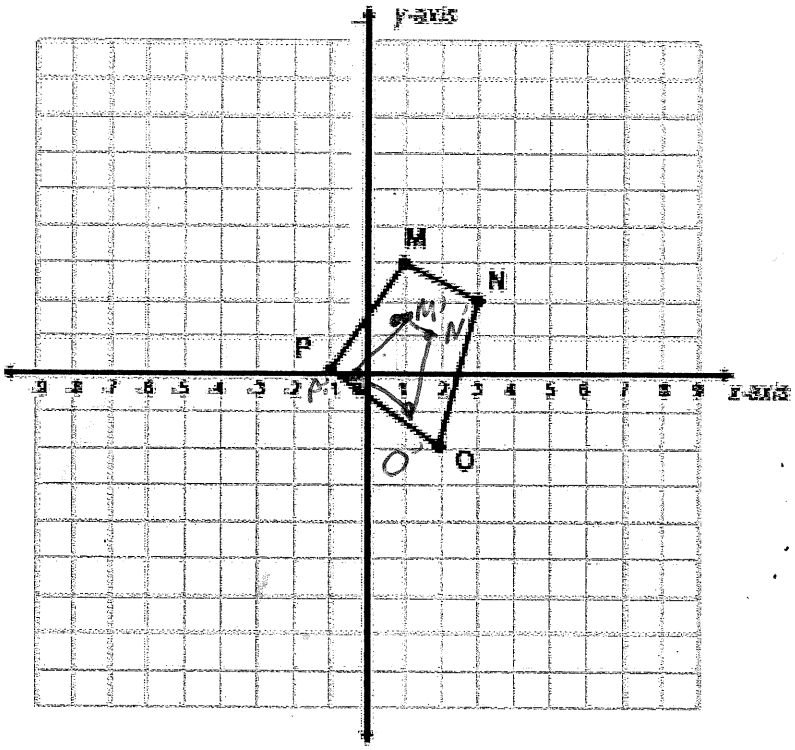
M: _____ M': _____

N: _____ N': _____

O: _____ O': _____

P: _____ P': _____

2. Graph a dilated image of quadrilateral MNOP using a scale factor of 1/2 and using the origin as the center of dilation.



M: (1, 3) M': (1/2, 3/2)

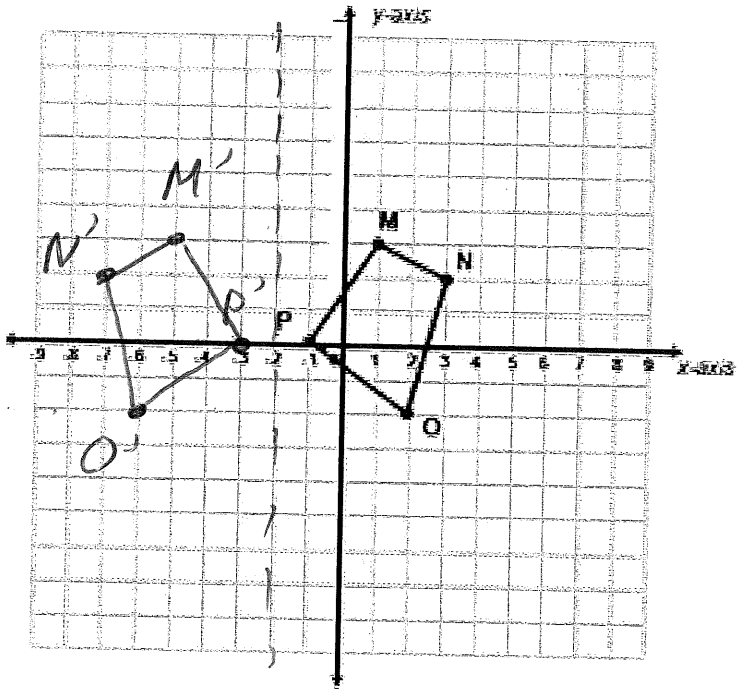
N: (3, 2) N': (3/2, 1)

O: (2, -2) O': (1, -1)

P: (-1, 0) P': (-1/2, 0)

Find the coordinates of the vertices after the transformation:

3. Reflection across the line x = -2



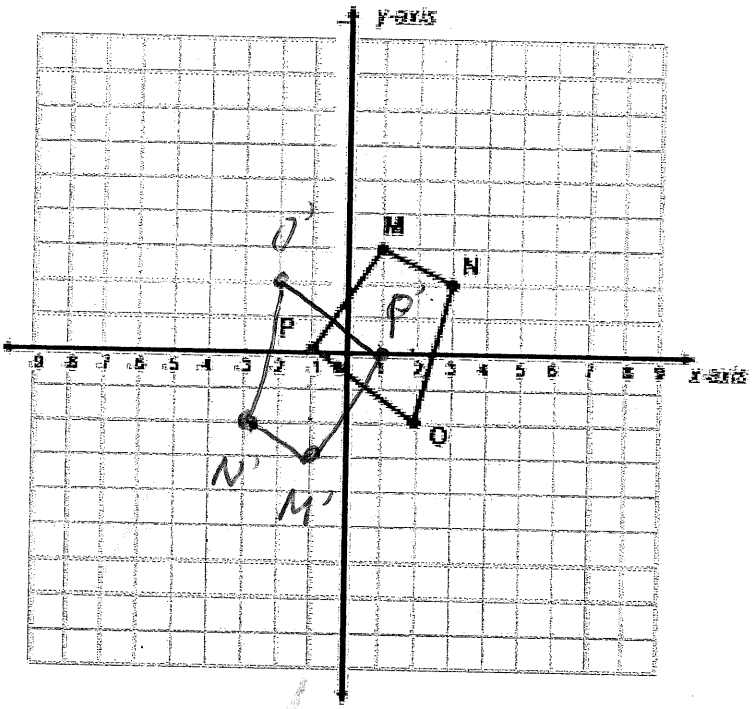
M: (1, 3) M': (-5, 3)

N: _____ N': _____

O: _____ O': _____

P: _____ P': _____

4. Rotation of 180° about the origin



change signs for both x and y

M: (1, 3) M': (-1, -3)

N: (3, 2) N': (-3, -2)

O: (2, -2) O': (-2, 2)

P: (-1, 0) P': (1, 0)

x-axis (flip y-value)

y-axis (flip x-value)