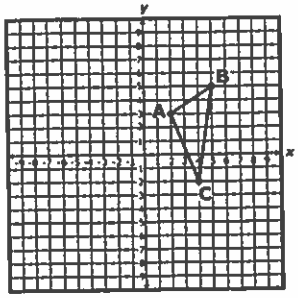
HW# 2.6

Name: _____

1 ΔABC is located on a coordinate plane.



If the triangle is transformed following the rule $(x, y) \rightarrow (-x, y)$, what transformation is modeled?

A Dilation
B Reflection
C Translation
D Rotation

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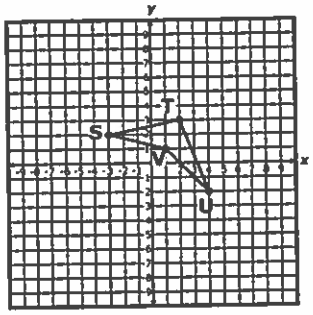
2 Quadrilateral STUV is located on a coordinate plane.



If the quadrilateral is transformed following the rule $(x, y) \rightarrow (-x, -y)$, what transformation is modeled?

A Dilation
B Reflection
C Translation
D Rotation

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3 Rectangle MNOP is located on a coordinate plane. If the rectangle is dilated following the rule $(x, y) \rightarrow (2x, 2y)$, what type of dilation is formed?

A Reduction
B Enlargement
C Congruent
D Not enough information to decide

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4. A figure has vertices at R(-2, -3), S(0, 2) and T(2, -3). After a transformation, the image of the figure has vertices at R'(-6, -9), S'(0, 6) and T'(6, -9). What transformation is modeled?

A Dilation
B Reflection
C Translation
D Rotation

Write the Rule: _____

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5) A figure has vertices at X(3, -3), Y(1, -2) and Z(3, 0). After the transformation, the image of the figure has vertices at X'(-3, -3), Y'(-1, -2) and Z'(-3, 0). What transformation is modeled?

A Dilation
B Reflection
C Translation
D Rotation

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6) A figure has vertices at D(-2, 1), E(-3, 3) and F(0, 3). After a transformation, the image of the figure has vertices at D'(-1, -2), E'(-3, -3) and F'(-3, 0). What transformation is modeled?

A Dilation
B Reflection
C Translation
D Rotation

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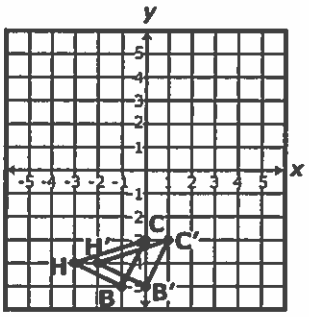
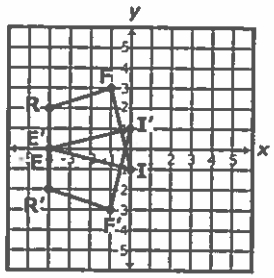
7) ΔBCH is mapped to ΔB'C'H'.



This transformation preserves congruence because:

A It is a translation following the rule $(x, y) \rightarrow (x + 1, y)$.
B It is a translation following the rule $(x, y) \rightarrow (x, y + 1)$.
C It is a rotation following the rule $(x, y) \rightarrow (x, -y)$.
D It is a rotation following the rule $(x, y) \rightarrow (-x, y)$.

8.) Quadrilateral ERFI is mapped to Quadrilateral E'R'F'I'.



This transformation preserves congruence because:

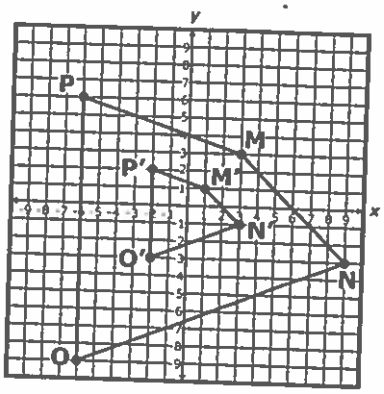
A It is a translation following the rule $(x, y) \rightarrow (x, y - 2)$?

B It is a translation following the rule $(x, y) \rightarrow (x - 2, y)$?

C It is a reflection following the rule $(x, y) \rightarrow (x, -y)$?

D It is a reflection following the rule $(x, y) \rightarrow (-x, y)$?

9.) Quadrilateral MNOP is similar to Quadrilateral M'N'O'P'.



This transformation does not preserve congruence because:

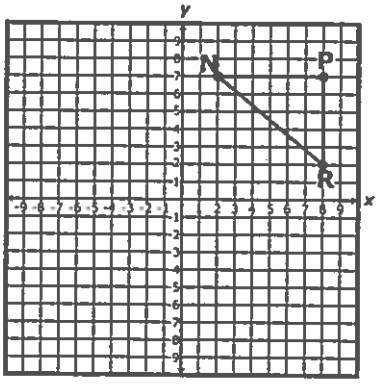
A It is a dilation following the rule $(x, y) \rightarrow (3x, 3y)$?

B It is a dilation following the rule $(x, y) \rightarrow (\frac{1}{3}x, \frac{1}{3}y)$?

C It is a reflection following the rule $(x, y) \rightarrow (3x, y)$?

D It is a reflection following the rule $(x, y) \rightarrow (x, 3y)$?

10.) ΔNPR is located on the coordinate plane.



Which transformation is represented the coordinates for P' are (8, -7)?

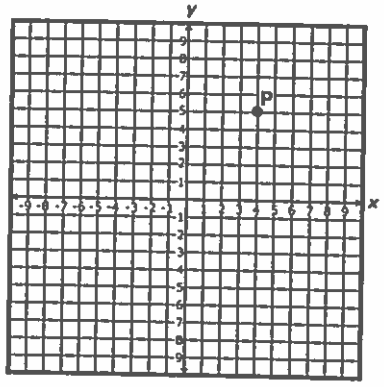
A A reflection across the x-axis

B A reflection across the y-axis

C A translation 8 units rights and units up

D A translation 4 units up and 7 u right

11.) Point P is graphed at (4, 5) shown on the grid below. Point P is 90° clockwise to Point P'.



What are the coordinates of P'?

A (-5, 4)

B (-4, 5)

C (5, -4)

D (-4, -5)