

Geometry

Unit 2 Transformation Practice A

Name:

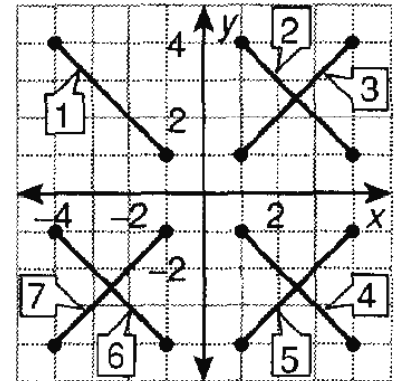
Date:

Period: 1 2 3 4 5 6

Standards: 22.0

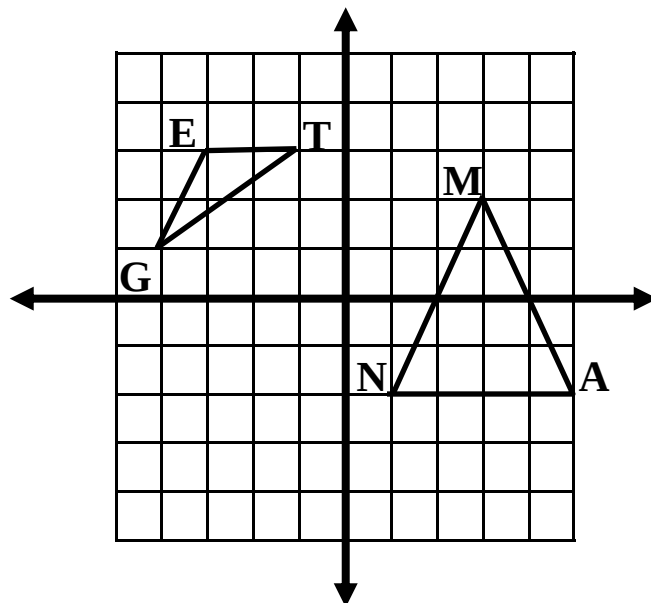
Holt: 1.7

- 1 What is the result of:
Reflection about x-axis
- 2 What is the result of:
Reflection about y-axis
- 3 What is the result of:
Reflection about $y = x$
- 4 What is the result of:
Reflection about x-axis then a
Reflection about y-axis
- 5 What is the result of:
Reflection about y-axis then a
Reflection about x-axis
- 6 What is the result of:
Reflection about x-axis then a
Reflection about y-axis then a
Reflection about x-axis



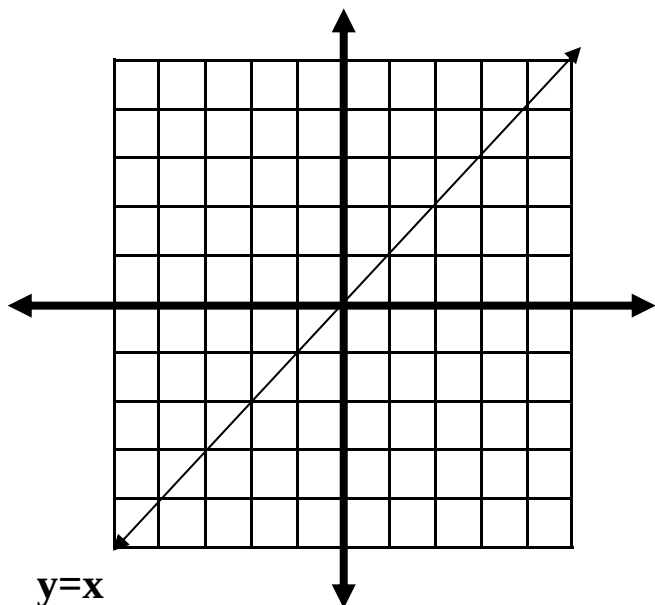
- 7 Given point A has the coordinates $(-8, 5)$.
If A is reflected across the x- axis, then the co-
ordinates of A' are:
- 8 Given point A has the coordinates $(-8, 6)$.
If A is reflected across the y- axis, then the co-
ordinates of A' are:
- 9 Given point A has the coordinates $(8, -2)$.
If A is reflected across the x- axis, then the co-
ordinates of A' are:
- 10 Given point A has the coordinates $(12, -1)$.
If A is reflected across the y- axis, then the co-
ordinates of A' are:
- 11 Given point A has the coordinates $(4, -2)$.
If A is translated by the rule:
 $(x, y) \rightarrow (x + 5, y - 2)$
Then the coordinates of A' are:
- 12 Given point A has the coordinates $(2, -1)$.
If A is translated by the rule:
 $(x, y) \rightarrow (x + 7, y - 3)$
Then the coordinates of A' are:
- 13 Given point A has the coordinates $(4, -2)$.
If A is translated by the rule:
 $(x, y) \rightarrow (x - 5, y - 1)$
Then the coordinates of A' are:
- 14 Given point A has the coordinates $(2, -1)$.
If A is translated by the rule:
 $(x, y) \rightarrow (x - 2, y + 6)$
Then the coordinates of A' are:
- 15 The vertices of $\triangle XYZ$ are $X(4, -2)$, $Y(-3, 6)$ and $Z(-2, -2)$. If $\triangle XYZ$ is translated 4units
down and 3units to the left, then what are the coordinates of the vertices of $\triangle X'Y'Z'$?
- 16 The vertices of $\triangle XYZ$ are $X(-1, 0)$, $Y(1, 7)$ and $Z(2, 3)$. If $\triangle XYZ$ is translated 4units down
and 3units to the left, then what are the coordinates of the vertices of $\triangle X'Y'Z'$?

- 17 If triangle GET is reflected about the x-axis, what are the coordinates of G'?
- 18 If triangle GET is reflected about the x-axis, what are the coordinates of E'?
- 19 If triangle GET is reflected about the x-axis, what are the coordinates of T'?
- 20 If triangle MAN is reflected about the y-axis, what are the coordinates of M'?
- 21 If triangle MAN is reflected about the y-axis, what are the coordinates of A'?
- 22 If triangle MAN is reflected about the y-axis, what are the coordinates of N'?
- 23 If triangle GET is rotated 180° about the origin what are the coordinates of G'?
- 24 If triangle GET is rotated 180° about the origin what are the coordinates of T'?
- 25 If triangle MAN is rotated 180° about the origin what are the coordinates of A'?
- 26 If triangle MAN is rotated 180° about the origin what are the coordinates of N'?



Suppose $\triangle MAN$ is translated by the following rule:
 $(x, y) \rightarrow (x + 5, y - 2)$

- 27 What are the resulting coordinates of M?
- 28 What are the resulting coordinates of A?
- 29 What are the resulting coordinates of N?



- 30 Given the point $(-2, 5)$. What are the coordinates of a reflection across $y=x$?
- 31 Given the point $(3, 5)$. What are the coordinates of a reflection across $y=x$?
- 32 Given the point $(4, -1)$. What are the coordinates of a reflection across $y=x$?
- 33 Given the point $(-6, -4)$. What are the coordinates of a reflection across $y=x$?
- 34 Given the point $(-2, -1)$. What are the coordinates of a reflection across $y=x$?