

Math 6 - Unit 7: Rational Explorations

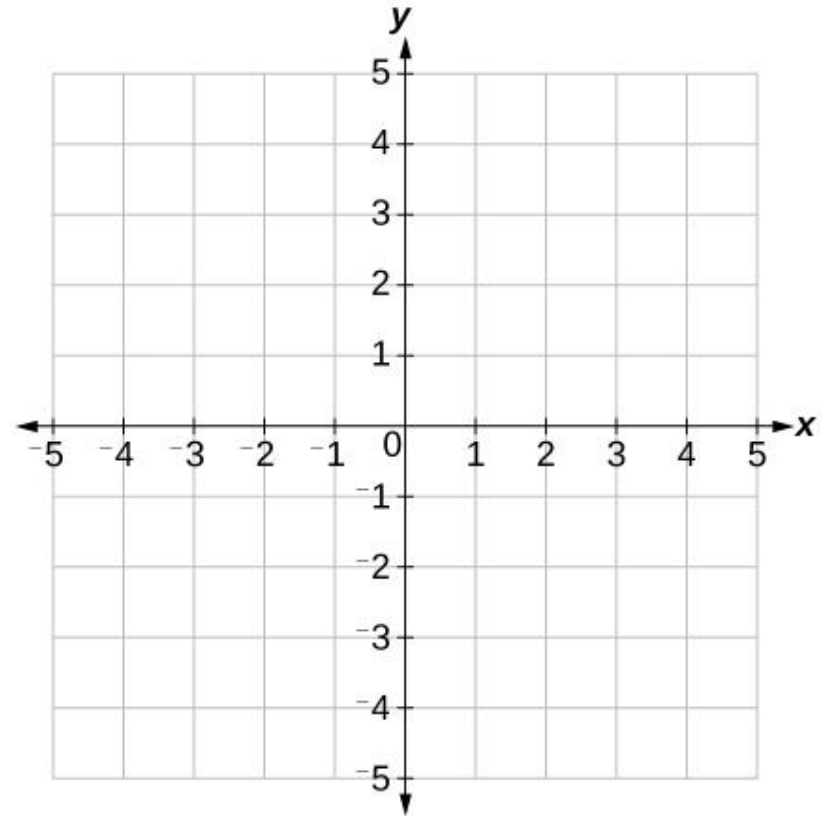
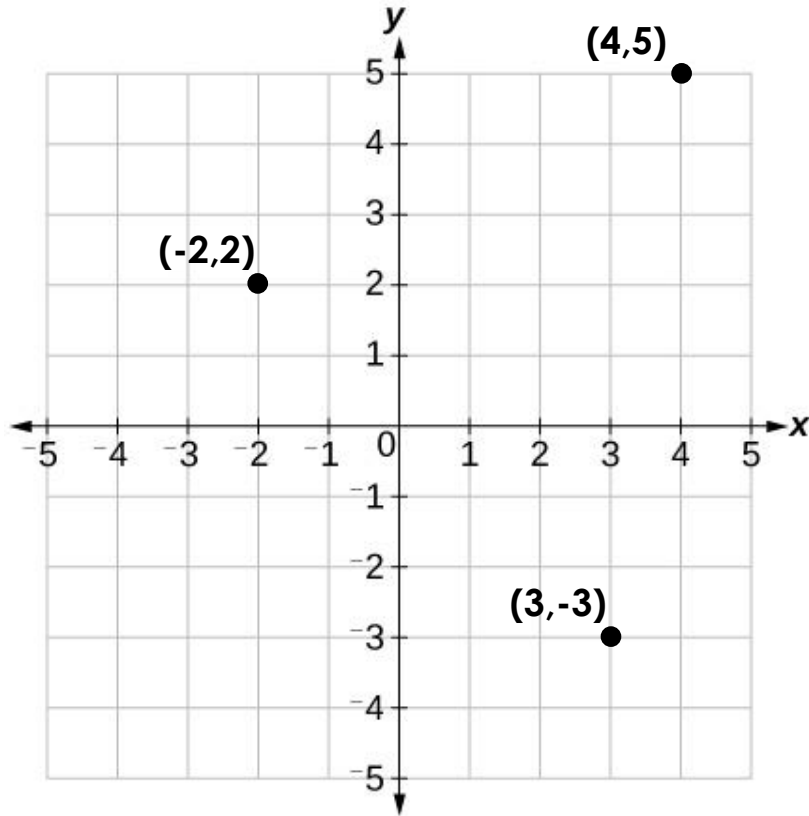
Reflection and Review

Name: _____

Class Period: 1 2 3 4 Date: _____

Find the ordered pair that is a reflection over the x-axis and then the y-axis of each of the points below.

Graph each ordered pair and find a reflection over the x-axis and then the y-axis for each point.



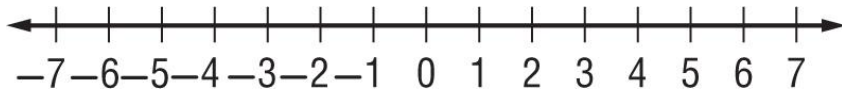
Original Point	Reflected over x-axis	Reflected over y-axis
A (-2,2)	A' (,)	A'' (,)
B (4,5)	B' (,)	B'' (,)
C (3,-3)	C' (,)	C'' (,)

Original Point	Reflected over x-axis	Reflected over y-axis
S (-5 , 4)	S' (,)	S'' (,)
U (-2 , -1)	U' (,)	U'' (,)
M (4 , 3)	M' (,)	M'' (,)

Extra Practice

For #'s 1-4, write an integer for each situation:

- 1) withdraw \$20 2) a gain of 3 days vacation
- 3) 27 feet below sea level
- 4) 10 units to the right on a number line
- 5) Graph the set $\{-2, 2, 0, -1, 6, -4\}$ on the number line.



- 6) The opposite of **-23** is: 7) The opposite of **-16** is:
- 8) The opposite of **150** is: 9) The opposite of **56** is:

Find the absolute value for each of the problems below.

- 10) $|8|$ 11) $|-91|$ 12) $-|100|$
- 13) $|-13|$ 14) $|729|$ 15) $-|-2|$

Use the symbols $<$, $>$, $=$ to compare the following numbers.

- 16) 15 _____ 12 17) $|-32|$ _____ $|37|$
- 18) 68 _____ -79 19) $|-47|$ _____ 47

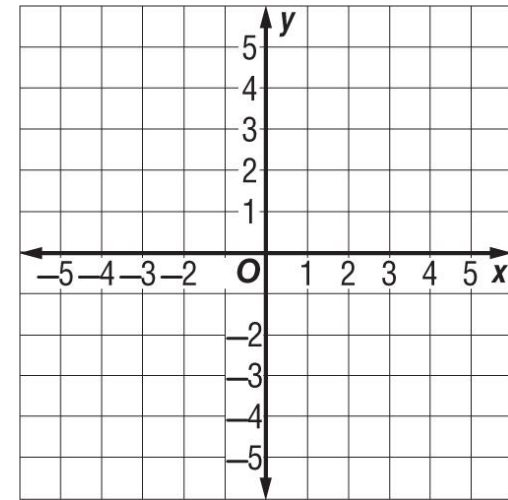
Put the numbers in order from LEAST to GREATEST.

- 20) $-23, 58, 9, -38, 0$
- 21) $-71, -56, 2, 92, -7$

Missing Points

Graph the given coordinates below to find the missing ordered pair to finish the rectangle.

A(-2, 2), B(-2, 5), C(-5, 2) D(,)



- 1) What is the missing point? _____
- 2) What is the perimeter of the rectangle? _____
- 3) What is the area of the rectangle? _____

Use the rectangle above and the coordinate plane to find the reflection of the rectangle across the x and y axis.

Reflection over the x-axis:

A' (,) B' (,) C' (,) D' (,)

Reflection over the y-axis:

A'' (,) B'' (,) C'' (,) D'' (,)

Math 6 - Unit 7: Rational Explorations

Reflection and Review

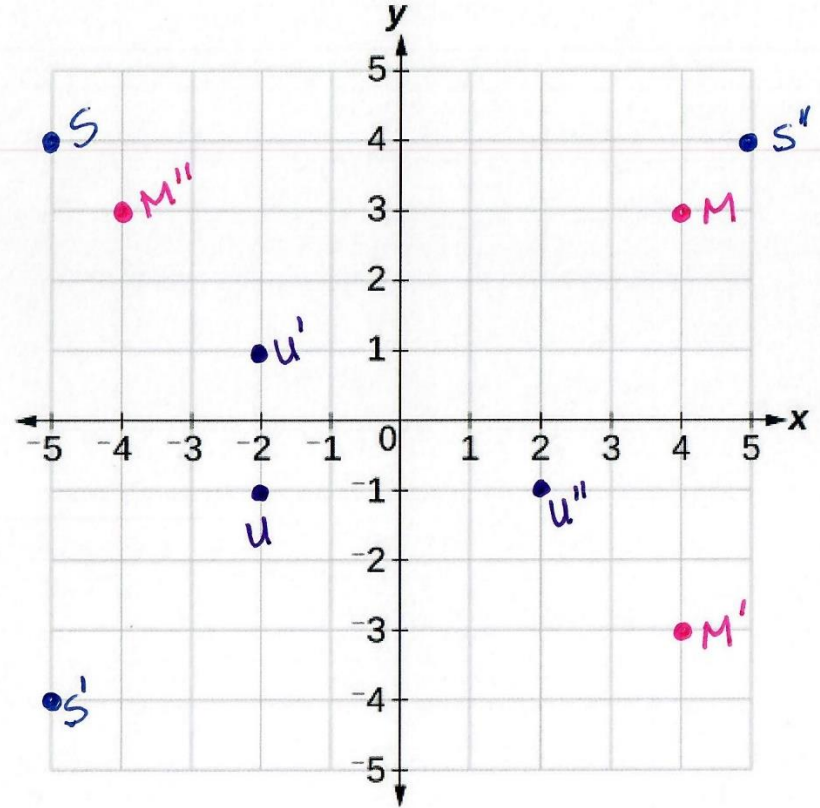
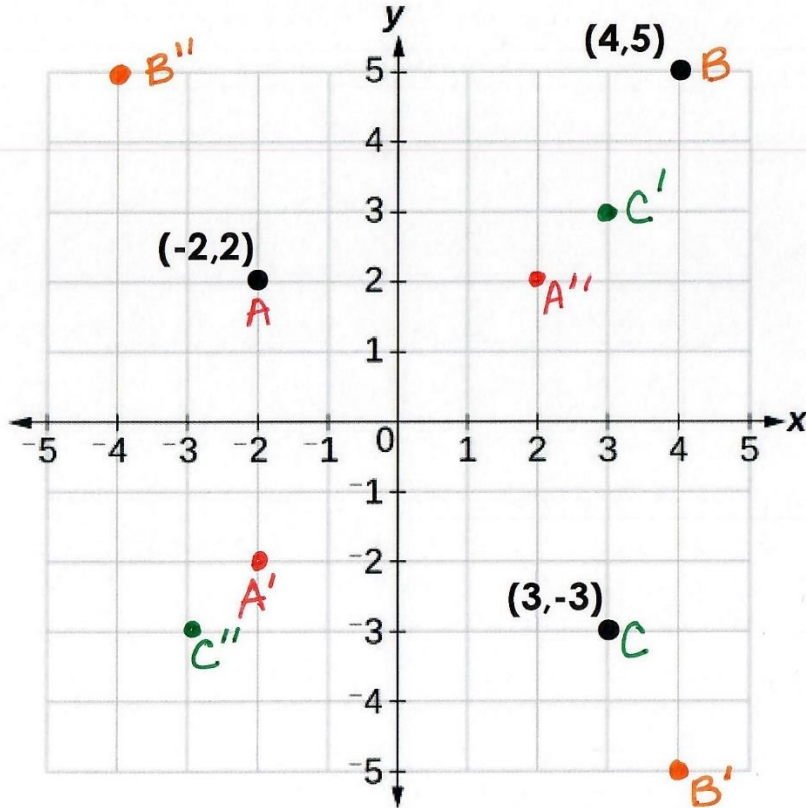
ANSWER KEY

Name: _____

Class Period: 1 2 3 4 Date: _____

Find the ordered pair that is a reflection over the x-axis and then the y-axis of each of the points below.

Graph each ordered pair and find a reflection over the x-axis and then the y-axis for each point.



Original Point	Reflected over x-axis	Reflected over y-axis
A (-2,2)	A' (-2,-2)	A'' (2,2)
B (4,5)	B' (4,-5)	B'' (-4,5)
C (3,-3)	C' (3,3)	C'' (-3,-3)

Original Point	Reflected over x-axis	Reflected over y-axis
S (-5, 4)	S' (-5,-4)	S'' (5,4)
U (-2, -1)	U' (-2,1)	U'' (2,-1)
M (4, 3)	M' (4,-3)	M'' (-4,3)

Extra Practice

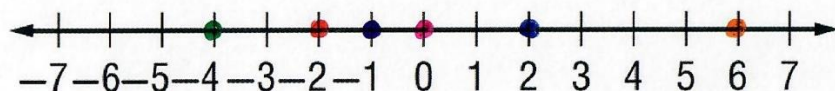
For #'s 1-4, write an integer for each situation:

1) withdraw \$20 2) a gain of 3 days vacation

3) 27 feet below sea level -27

4) 10 units to the right on a number line 10

5) Graph the set $\{-2, 2, 0, -1, 6, -4\}$ on the number line.



6) The opposite of -23 is: 23 7) The opposite of -16 is: 16

8) The opposite of 150 is: -150 9) The opposite of 56 is: -56

Find the absolute value for each of the problems below.

10) $|8|$ 8 11) $|-91|$ 91 12) $-|100|$ -100

13) $|-13|$ 13 14) $|729|$ 729 15) $-|-2|$ -2

Use the symbols $<$, $>$, $=$ to compare the following numbers.

16) $15 > 12$ 17) $|-32| < |37|$

18) $68 > -79$ 19) $|-47| = 47$

Put the numbers in order from LEAST to GREATEST.

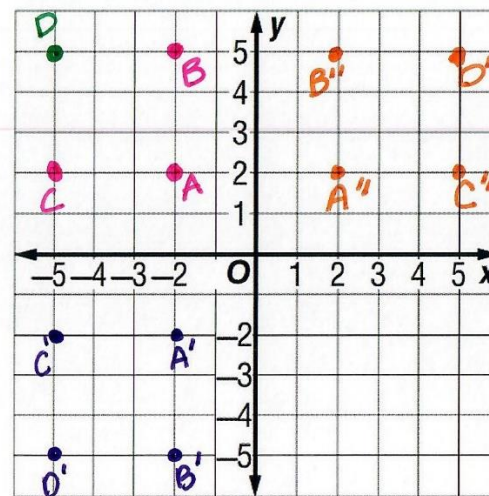
20) $-23, 58, 9, -38, 0$ $-38, -23, 0, 9, 58$

21) $-71, -56, 2, 92, -7$ $-71, -56, -7, 2, 92$

Missing Points

Graph the given coordinates below to find the missing ordered pair to finish the rectangle.

A B C D
 $(-2, 2), (-2, 5), (-5, 2)$ $(-5, 5)$



1) What is the missing point? $(-5, 5)$

2) What is the perimeter of the rectangle? 12 units

3) What is the area of the rectangle? 9 units²

Use the rectangle above and the coordinate plane to find the reflection of the rectangle across the x and y axis.

Reflection over the x-axis:

A' $(-2, -2)$ B' $(-2, -5)$ C' $(-5, -2)$ D' $(-5, -5)$

Reflection over the y-axis:

A'' $(2, 2)$ B'' $(2, 5)$ C'' $(5, 2)$ D'' $(5, 5)$