

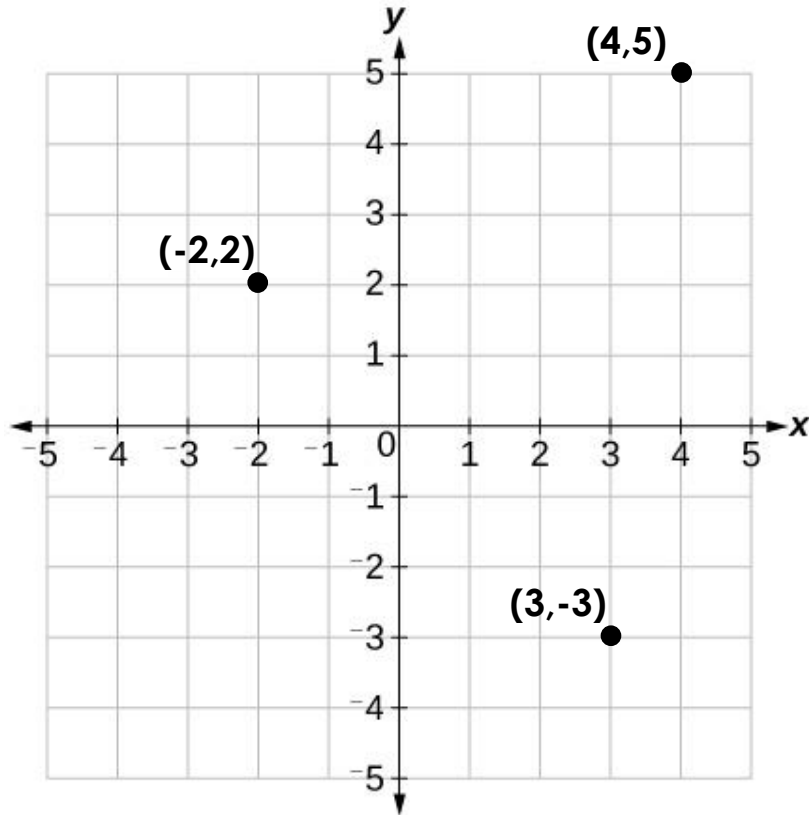
Name: _____

Class Period: 1 2 3 4 Date: _____

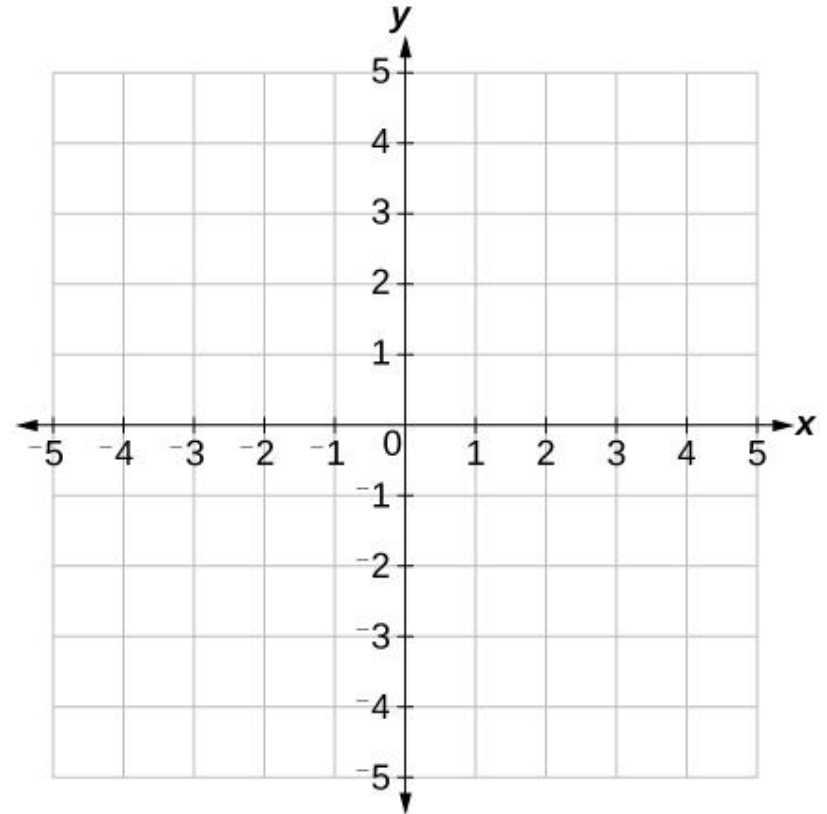
Math 6 - Unit 7: Rational Explorations

Reflecting Points on a Coordinate Plane

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.



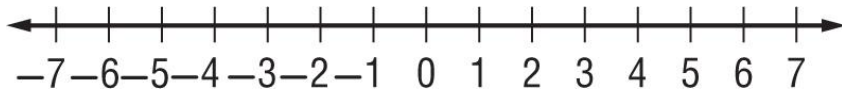
Original Point	Reflected over x-axis	Reflected over y-axis
$(-2, 2)$	(\quad , \quad)	(\quad , \quad)
$(4, 5)$	(\quad , \quad)	(\quad , \quad)
$(3, -3)$	(\quad , \quad)	(\quad , \quad)

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

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

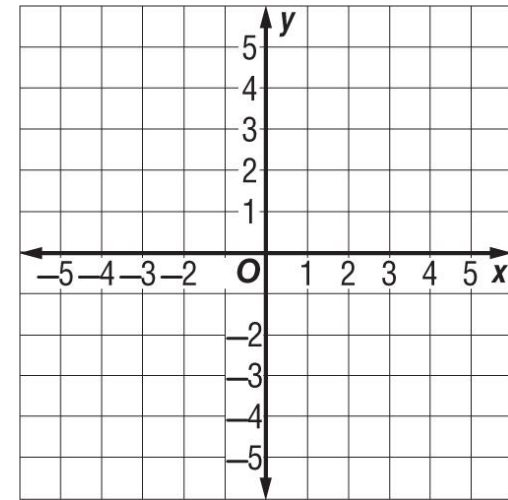
Put the numbers in order from LEAST to GREATEST.

- 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.

$(-2, 2), (-2, 5), (-5, 2)$ (,)



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

Bonus

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' (,)