

8th Grade AMI

Day 6:

Find the slope using the following pairs of points and the slope formula.

(a) $(-4,7)$ and $(5, 9)$

(b) $(5,6)$ and $(3, -4)$

Day 7:

Find the new coordinates after the given transformation.

(a) $(4,8)$ after a reflection over the y-axis

(b) $(-3,7)$ after a rotation of 180 degrees counterclockwise

Day 8:

Find the scale factor used to dilate Point A to its image A'.

(a) A $(3,7)$ A' $(9,21)$

(b) A $(12,8)$ A' $(6,4)$

Day 9:

1. Use the Pythagorean Theorem to find the hypotenuse of a right triangle with leg lengths $a = 3$ and $b = 4$.
2. Determine if the following pairs of side lengths can form a right triangle.
 $5,12,13$

Day 10:

Given the slope and y-intercept, write an equation in $y = mx + b$ form.

(a) $m = 5$ $b = -6$

(b) $m = -3$ $b = 10$