

(using coordinates and segment addition)

Mathematician: \_\_\_\_\_

Period:\_\_\_\_\_







LEVEL: MASTERY

Directions: Points A, B and C are collinear, with B in between A and C. Use the following information to solve for the length of the indicated line segment.

7) $\overline{AC} = 9x$ , $\overline{BC} = 3x + 8$ , and $\overline{AB}$ length of $\overline{BC}$ .	= 2x. Find the	8) $\overline{AB} = x + 9, \overline{B}$ the length of $\overline{AC}$ .	$\overline{C} = x + 5$ and $\overline{AC} = 7x + 2$ . Find
	<u>BC</u> =		<u>AC</u> =
9) $\overline{XZ} = 4 - 6x$ , $\overline{YZ} = 6 - x$ , and $\overline{X}$ Find the length of $\overline{XY}$ .	$\overline{XY} = 7 - 2x.$	$10) \overline{RS} = 2x^2 + 1$ $\overline{RT} = x^2 + 12x + 1$	$15x + 25, \overline{ST} = 10$ and - 45. Find the length of $\overline{RS}$ .
	<i>XY</i> =		$\overline{RT} = \_$
11) a) The endpoints of $\overline{AB}$ are at (2,1) and (2,6). One of the endpoints of $\overline{CD}$ is at (-10,3). If $\overline{AB} \cong \overline{CD}$ , and $\overline{CD}$ is in the second quadrant, and is parallel to the x-axis, what is the other endpoint of $\overline{CD}$ ?			b) Draw a line segment $\overline{EF}$ on the graph such that $\overline{AB} \cong \overline{CD} \cong \overline{EF}$ . What are the ordered pairs of your endpoints?
Draw the two line segments on the graph to the right.			

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