

MasterMath

The Distance and Midpoint Formulas

Name _____

Date _____

1. Find the distance between these points:

If necessary, round your answers to the nearest 100th.

Point 1	Point 2	Distance
(3, 4)	(5, 6)	
(-1, 3)	(5, 2)	
(6, -2)	(-4, 7)	
(5, -5)	(-3, 2.5)	

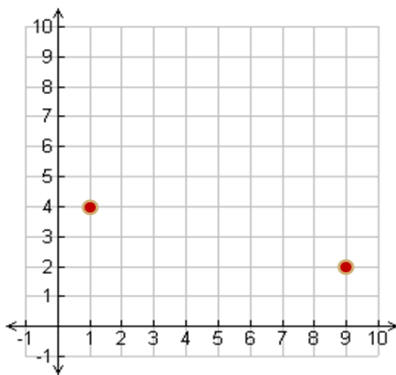
2. Find the midpoint of the line between these points:

Point 1	Point 2	Midpoint
(3, 4)	(5, 6)	
(-1, 3)	(5, 2)	
(6, -2)	(-4, 7)	
(5, -5)	(-3, 2.5)	

3. The distance between $(x, -6)$ and $(-5, 2)$ is 10. What does x equal?

Hint: x could have more than one value.

4. What is the length of the line segment between these points? What are the coordinates of the midpoint of the line segment?



length	midpoint

5. M is the midpoint of line segment AB . The coordinates of A are $(-2, 3)$ and the coordinates of M are $(1, 0)$. Find the coordinates of B .