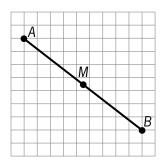
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Module 18 Lesson 4	Solving Radical Equations Solving Problems Using the Distance and Midpoint Formulas	guided notes
Lesson C	bjectives	V Annon
Demonst Use the ofference of the ofference ofference ofference of the ofference ofference of the of	e distance as the absolute value of a difference. rate the correct use of the Pythagorean Theorem. distance formula to solve problems. midpoint formula to solve problems.	
In the Pythago	rean Theorem, if <i>c</i> is the length of hypotenuse of the rig	ght
triangle and <i>a</i>	and <i>b</i> are the lengths of the legs, then $c^2 =$	
To determine t	he distance between two points on a number line, find t	the
absolute value	of the between their coordinates.	
T 1 11 (1		
The distance b	etween points (x_1, y_1) and (x_2, y_2) is given by the Distance	1

Find the distance between point *R* with coordinates (4, -6) and point *S* with

coordinates (-4, -10).

The midpoint of \overline{AB} is the point *M* such that _____



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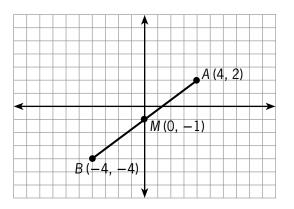
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The midpoint of a segment can be found using the Midpoint Formula.

The midpoint between points $A(x_1,y_1)$ and $B(x_2,y_2)$ is the point





(2) What is the distance from Mike's house, M(0, -1), to Angelo's house, A(4, 2)?

(3) What is the distance from Mike's house, M(0, -1), to Brenda's house, B(-4, -4)?

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