Geometry Honors	Mathematician:
Unit 1 Geometry Essentials	Period:
1.2b Day 1: Midpoint and Distance Formula	
	LEVEL: EMERGING
1) State the distance formula:	2) State the midpoint formula.
d =	midpoint = (,)
Directions: Find the exact lengths of the following line segments with the given endpoints.	
3) (-8,7) and (5,1)	4) (-11, 17) and (-6,5)
Directions: Find the midpoint between the given points.	
5) (-8,5) and (2,7)	6) (6,-1) and (-3,-13)
Directions: Given the midpoint and one of the endpoints, find the other endpoint.	
7) Endpoint (2, -4) and Midpoint (-6, 5)	8) Endpoint (-10, -1) and Midpoint (5, 1)
LEVEL: PROFICIENT	
Directions: Find the exact length and the midpoint of	the segment below.
Le	ength Midpoint

LEVEL: MASTERY



Directions: Find the exact lengths of the following line segments. Justify by showing algebraic work!



e) Which segment is the longest?

13) The diagram shows the positions of three players during part of a water polo match. Player *A* throws the ball to Player *B*, who then throws it to Player *C*. If the ball travels through the air at an average of 15.5 m/s, how long will it take for the ball to move from Player *A* to Player *B* to Player *C*? Round your answer to the nearest hundredth of a second.

