## Handout 5: Cartesian Coordinated Answers

For questions 1-4, calculate the distance between the two points.

C(4,8) and D(8,-4).
 <sup>4</sup>√10
 L(4,6) and M(7,3)
 <sup>3</sup>√2
 R(-5,3) and S(-10,15)
 13
 W(9,16) and Z(20,5)
 11√2

For questions 5-6, find the coordinates of the midpoint of the segment with the given endpoints.

- 5. (4,8) and (8,-4) (6,2)
- 6. (-5,3) and (-10,15) (-7.5,9)
- 7. Is (5.5, 5.5) the midpoint of the segment with endpoints (4, 6) and (7, 3)? No
- 8. Is (14.5,11.5) the midpoint of the segment with endpoints (9,16) and (20,5)? No
- 9. If a line segment has one endpoint at (5,9) and a midpoint at (12,4), where is the other endpoint? (19,-1)
- 10. If a line segment has one endpoint at (9,-5) and a midpoint at (3,0), where is the other endpoint? (-3,5)

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