

Handout 5: Cartesian Coordinated Answers

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

1. $C(4, 8)$ and $D(8, -4)$.

$$4\sqrt{10}$$

2. $L(4, 6)$ and $M(7, 3)$

$$3\sqrt{2}$$

3. $R(-5, 3)$ and $S(-10, 15)$

$$13$$

4. $W(9, 16)$ and $Z(20, 5)$

$$11\sqrt{2}$$

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?

$$(-3, 5)$$