Coordinate Geometry Worksheets

Find the lengths of the line segments whose end points are given below. Explain how you determined that the line segments are horizontal or vertical.

1. (-3,4) and (-3,9)

2. (2, -2) and (-8, -2)

3. (-6, -6) and (-6, 1)

4. (-9,4) and (-4,4)

5. (0, -11) and (0, 8)

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Find the lengths of the line segments whose end points are given below. Explain how you determined that the line segments are horizontal or vertical.

1. (-3,4) and (-3,9)

Both end points have x-coordinates of -3, so the points lie on a vertical line that passes through -3 on the x-axis. |4| = 4 and |9| = 9, and the numbers are on the same side of zero. By subtraction, 9 - 4 = 5, so the length of the line segment with end points (-3,4) and (-3,9) is 5 units.

2. (2, -2) and (-8, -2)

Both end points have y-coordinates of -2, so the points lie on a horizontal line that passes through -2 on the y-axis. |2| = 2 and |-8| = 8, and the numbers are on opposite sides of zero, so the absolute values must be added. By addition, 8 + 2 = 10, so the length of the line segment with end points (2, -2) and (-8, -2) is 10 units.

3. (-6, -6) and (-6, 1)

Both end points have x-coordinates of -6, so the points lie on a vertical line. |-6| = 6and |1| = 1, and the numbers are on opposite sides of zero, so the absolute values must be added. By addition, 6 + 1 = 7, so the length of the line segment with end points (-6, -6)and (-6,1) is 7 units.

4. (-9,4) and (-4,4)

Both end points have y-coordinates of 4, so the points lie on a horizontal line. |-9| = 9and |-4| = 4, and the numbers are on the same side of zero. By subtraction, 9 - 4 = 5, so the length of the line segment with end points (-9,4) and (-4,4) is 5 units.

5. (0, -11) and (0, 8)

Both end points have x-coordinates of 0, so the points lie on the y-axis. |-11| = 11 and |8| = 8, and the numbers are on opposite sides of zero, so their absolute values must be added. By addition, 11 + 8 = 19, so the length of the line segment with end points (0, -11) and (0,8) is 19 units.

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