

Semester Review -- Coordinate Geometry

Find the midpoint of the line segment with the given endpoints.

1) $(-6, 7), (-7, -6)$

2) $(-3, 3), (-1, -8)$

3) $(0, -8), (-8, 2)$

4) $(4, 9), (-2, -9)$

Find the other endpoint of the line segment with the given endpoint and midpoint.

5) Endpoint: $(7, 6)$, midpoint: $(-9, 2)$

6) Endpoint: $(10, -6)$, midpoint: $(-3, -1)$

7) Endpoint: $(-8, -10)$, midpoint: $(-9, 9)$

8) Endpoint: $(-4, 8)$, midpoint: $(-3, -1)$

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

9) $(1, -7), (2, -8)$

10) $(-6, -3), (-8, 7)$

Find the slope of the line through each pair of points.

11) $(19, 16), (-20, 8)$

12) $(7, 4), (12, -19)$

13) $(-6, -17), (3, 5)$

14) $(-19, 12), (-7, -13)$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

15) through: $(3, 3)$, slope = $\frac{1}{3}$

16) through: $(-5, -4)$, slope = $\frac{6}{5}$