

Midpoint and Distance

Date _____ Period _____

Find the midpoint of the line segment with the given endpoints; use $M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$.

1) $(-9, -5), (0, -2)$

2) $(-4, -5), (6, -9)$

3) $(-8, 2), (-8, 10)$

4) $(-6, 6), (-8, -7)$

5) $(-6, -7), (1, -10)$

6) $(5, -1), (-3, -1)$

7) $(-5, 5), (-3, 0)$

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

9) $(10, 5), (-1, -3)$

10) $(-1, -4), (6, -6)$

Find the distance between each pair of points; use $D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$.

11) $(5, -3), (-8, 3)$

12) $(2, -1), (4, -4)$

13) $(6, -5), (-3, -1)$

14) $(-3, -5), (6, -7)$

15) $(7, 5), (-4, -4)$

16) $(2, -8), (0, -8)$

17) $(-4, 1), (-4, -7)$

18) $(5, 7), (-8, -3)$

19) $(-6, 1), (-2, 8)$

20) $(2, 0), (-2, 2)$