Midpoint and Distance Practice Quiz

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

1) \((-4, -2) \text{ (3,3)}\) 
2) \((-1, 0) \text{ (-3, -4)}\)

Find the slope of the given points.

3) \((-5, 4) \text{ (-10, -6)} \)
4) \((-8, 8) \text{ (5, -3)} \)

Find the distance between each pair of points. Simplify all answers in simplest radical form.

7) \((7, 6), \text{ (0, 2)}\) 
8) \((4, 2), \text{ (6, -6)}\)

9) \((-6, 1), \text{ (-3, 1)}\) 
10) \((-3, 6), \text{ (2, 1)}\)
Find the **distance** and the **slope**. Simplify all answers in simplest radical form.

**Answers**
1) (-0.5, 0.5)
2) (-2, -2)
3) slope = 2
4) slope = -11/13
5) (3, -3.5)
6) (0.5, 2.5)
7) $\sqrt{65}$
8) $2\sqrt{41}$
9) 3
10) $5\sqrt{2}$
11) distance = $\sqrt{61}$ slope = -5/6
12) distance = $2\sqrt{34}$ slope = -3/5
13) distance = $\sqrt{5}$ slope = -2
14) distance = $\sqrt{34}$ slope = 3/5