- 1. Find the exact distance between the following pairs of points. Then find the midpoint of the line segment connecting them.
  - (a) P(-4,3); Q(2,-5)

(b) P(-6,-5); Q(6,10)

2. Determine whether or not the three points P(-4,3), Q(2,5), and R(-1,-6) form a right triangle.

3. Determine whether or not the three points P(-7,4), Q(6,-2), and R(-1,1) are collinear.

4. Suppose that the points P and Q have midpoint (-9,8). If Q is (-16,9), find P.

