Find the distance and midpoint for each pair of points given.

   1. (2,3) & (-4,6)

                                      2. (12,3) & (-8,3)

   3. (2,7) & (10,-3)

                                        4. (5,6) & (5,-3)

Write the equation of the line in slope-intercept form y = mx+b through the following points.

5. (3,2) & (6,1)

6. (1,1) & (3,4)

Write the equation of the line in slope-intercept form parallel to the given line.

7. m = 7 & goes through (2,6)

8. m = $\frac{1}{2}$ & goes through (2,-4)

Write the equation of the line in slope-intercept form perpendicular to the given line.

9. m = $\frac{1}{3}$ & goes through (3,-6)

10. m = 4 & goes through (-8,2)