Name: _____   Date: _____

Equations of Parallel Lines

A. Determine whether the lines are parallel given the equations.

1) $y = -2x + 5$; $y = 2x - 3$

2) $3x - 8y = -16$; $32x + 12y = -18$

3) $9x + 3y = 12$; $27x + 9y = 40$

4) $3x - 4y = 19$; $8x + 6y = 12$

B. Determine whether the lines through the pairs of points are parallel.

5) $(2, 5)$ and $(-2, 7)$; $(0, 4)$ and $(1, 6)$

6) $(1, 2)$ and $(5, 4)$; $(0, 3)$ and $(2, 4)$

7) $(0, -5)$ and $(2, -4)$; $(-1, -5)$ and $(1, -6)$

8) $(0, 2)$ and $(-4, 8)$; $(-4, 0)$ and $(4, -12)$

C. Find the equation of a line through the given point A that satisfies the given condition.

9)   Point A $(2,1)$; parallel to the y-axis

10) Point A$(2,-4)$; parallel to the line $5x - 2y = 4$.