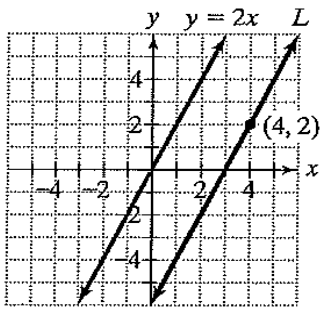
MAT 171 Homework Section 2.4 More on Slope **Name** _____

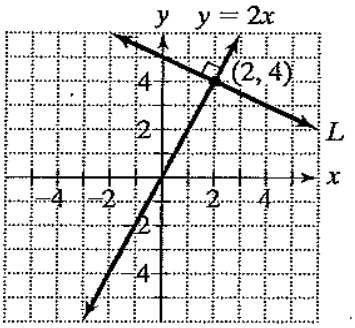
Write an equation for line L in point-slope form and slope-intercept form.

1)



L is parallel to $y = 2x$.

2) _____



L is perpendicular to $y = 2x$.

Use the given conditions to write an equation for each line in point-slope form and slope-intercept form.

3) Passing through $(-8,-10)$ and parallel to the line whose equation is $y = -4x + 3$

4) Passing through $(2,-3)$ and perpendicular to the line whose equation is $y = \frac{1}{5}x + 6$

Use the given conditions to write an equation for each line in point-slope form and general form ($Ax + By + C = 0$).

5) Passing through $(-2,2)$ and parallel to the line whose equation is $2x - 3y - 7 = 0$

6) Passing through $(4,-7)$ and perpendicular to the line whose equation is $x - 2y - 3 = 0$

Find the average rate of change of the function from x_1 to x_2 .

7) $f(x) = 3x$ from $x_1 = 0$ to $x_2 = 5$

8) $f(x) = x^2 + 2x$ from $x_1 = 3$ to $x_2 = 5$