Linear Equations 3.2
Geometry

In problems 1-2, perform the following with each equation.
A. Use a t-table to find three solutions. Find and label the x and y-intercepts. Find the slope of the graph.
B. Graph the equation.

1) $6x + 2y = 12$ 2) $x - 3y = 3$

Put the following equations in slope-intercept form. Graph them with their x and y-intercepts. State the slope of each graph.

3) $-2x + 4y = 8$ 4) $2x - y = 4$

5) $-3x - 2y = 6$ 6) $4x + 5y = -10$

Given the following pairs of equations in 7 - 12, find the slope of the graph of each equation, and state whether the lines are parallel, perpendicular, or neither.

7) $y = 2x + 5$ 10) $3x + 4y = 12$
        $y = 5x + 2$ $4x = 3y + 9$

8) $y = \frac{3}{2}x + 7$ 11) $x = 3$
                                                       $y = -2$
        $y = \frac{3}{2}x - 1$

9) $y = \frac{1}{5}x - 3$ 12) $-2y = -4x + 10$
                                                       $5x + 10y = 5$
        $y = -5x + 4$