

Name: \_\_\_\_\_ Show work needed to justify your answer. Date: \_\_\_\_\_

**HW # 28b:** Algebra 1 - Standard 16 - Writing Equations in Standard & Point Slope Form 5 points

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the equation. Then write an equation for the line that passes through the given point and is perpendicular to the graph of the equation.

26.  $(4, -3); y = 3x - 5$

Parallel

29.  $(-2, 3); y = -\frac{3}{4}x + 4$

Parallel

Perpendicular

Perpendicular

Determine whether the graphs of each pair of equations are *parallel*, *perpendicular*, or *neither*.

31.  $y = 4x + 3$   
 $4x + y = 3$

32.  $y = -2x$   
 $2x + y = 3$

33.  $3x + 5y = 10$   
 $5x - 3y = -6$