ALGEBRA I PARALLEL/PERPENDICULAR LINES

NAME: _____ PER: _____

1. Write the equation of the line with slope -7 and y-intercept of 8.

2. Write the equation of the line with slope 5 and goes through (-5, 6).

3. Write the equation of the line with slope -1/2 and goes through (4, 3).

Write the equation of the line that goes through the following points. 4. (4, -1) and (-2, 5) 5. (6, 4) and (10, 6)

6. Write the equation of the line that goes through (1, 4) and is parallel to y = 2x - 5.

7. Write the equation of the line that goes through (3, 2) and is perpendicular to y = 3x - 2.

8. Write the equation of the line that is parallel to y = -1/4x + 5 and crosses the y-axis 4 units below it.

9. Write the equation of the line that goes through (8, 5) and has a y-intercept of 1.

10. Write the equation of the line that is parallel to y = -2x + 1 and crosses the y-axis 2 units above it.

11. Write the equation of the line that goes through (5, 7) and is perpendicular to $y = \frac{1}{3}x + 2$

12. Write the equation of the line that is perpendicular to the x-axis and crosses the x-axis at 4.

13. Write the equation of the line that is parallel to the x-axis and crosses the y-axis at 4.

Graph the following lines.

12. 8x + 2y = 6 13. 3x + 2y = 8 14. -3x + 4y = -4

