Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

**Chapter 2, Section 6B Notes**

***Writing Equations of Parallel and Perpendicular Lines***

**Today’s Learning Goal:** *At the end of today’s lesson, you should be able to write an equation of a parallel or perpendicular line to a given line from a graph or equation.*

**Part 1:***Writing an Equation of a* ***Parallel*** *line*

Write an equation of the line that passes through the point (6, -2) and is *parallel* to the line

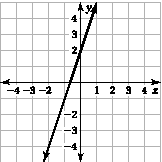
y = ½ x + 3.

Write an equation of the line that passes through the point (-2, 1) and is **parallel** to the line

y = 3x – 4.

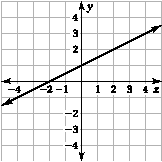
Write an equation of the line that passes through the point (2, -3) and is **parallel** to the line

shown in the graph.



**Part 2:** *Writing an Equation of a* ***Perpendicular*** *line*

Write an equation of the line that passes through (-3, 1) and is **perpendicular** to the line shown in the graph.



Write an equation of the line that passes through (4, 2) and is **perpendicular** to the line

y = -1/3x + 1.

Write an equation of the line that passes through (0, -1) and is **perpendicular** to the line

y = x – 6.

**Progress Monitoring:** *How do you feel about your level of understanding of writing linear equations or parallel and perpendicular lines?* (Rate yourself from 0 (don’t understand at all) to 10 (doing awesome))

