ALGEBRA I – Chapter 4.3 Quiz Review

1. Sketch an example of two lines that are parallel.

2. Parallel slopes are always _____. For example, if line A and line B are

parallel, and the slope of line A is 10, the slope of line B is _____.

3. Sketch an example of two lines that are perpendicular.

4. Perpendicular slopes are always _____. For example, if line A and line

B are perpendicular, and the slope of line A is 10, the slope of line B is _____.

For each of the following problems, write an equation in slope-intercept form that meets the description.

5. Line A and Line B are **parallel**. The equation for Line A is below, and Line B passes through the point (7, 2). What is the equation of Line B?

$Line\ A: y = 10x + 8$

6. Line A and Line B are **perpendicular**. The equation for Line A is below, and Line B passes through the point (10, 4). What is the equation of Line B?

$Line\ A: y = \dfrac{3}{5}x + 1$

7. Line A and Line B are **parallel**. The equation for Line A is below, and Line B passes through the point (-2, 5). What is the equation of Line B?

$Line\ A: y = \dfrac{2}{3}x - 10$