Name: _	
Date:	Period:

•	PARALLEL LINES have SAME slopes.		
	Given: Linear equation of $y = -3x - 2$.		
	Slope of $y = -3x - 2$ is, the	erefore parallel slope is	
•	• PERPENDICULAR LINES have OPPOSITE RECIPROCAL (FLIP-FLOP) slopes.		
Given: Linear equation of $y = -\frac{1}{4}x + 3$			
	Slope of $y = -\frac{1}{4}x + 3$ is, the	erefore perpendicular slope is	
State the parallel and perpendicular slope for each given set of points.			
1.)	(-3,5) and (-6,7)	2.) $(-8, 4)$ and $(-6, -4)$	
Parallel Slope:		Parallel Slope:	
Perpendicular Slope:		Perpendicular Slope:	
3.)	3.) Write an equation of a line in slope-intercept form that is <u>parallel</u> to the line of $y = \frac{1}{2}x + 6$ and whose		

- y-intercept is -2.
- 4.) Write an equation of a line in slope-intercept form that is <u>parallel</u> to the line of y = -4x 9 and passes through the point (-2, -4).

5.) Write an equation of a line in slope-intercept form that is <u>parallel</u> to the line 4x - 6y = 12 and passes through the point (6, -3).

6.) Write an equation of a line in slope-intercept form that is <u>perpendicular</u> to the line y - 3 = -2(x + 3) and passes through the point (10, -2).

7.) Write an equation of a line in slope-intercept form that is <u>perpendicular</u> to the line 2x - 3y + 6 = 0 and passes through the point (-4, -6).

8.) Write an equation of a line in slope-intercept form that is <u>perpendicular</u> to the line that contains the points (6, -2) and (4, -8) and passes through the point (-9, 4).

Retro Questions

9.) Simplify. $(2x^{-2}yz^{-3})^{-4}$

10.) Simplify. 12 - 16(4⁻² · 2⁵) ÷ (6 - (-2)) - 8