## **4-4 Notes: Parallel and Perpendicular Lines**

Parallel Lines		
Example: Write an equategraph of $y = 2x + 12$ .	on in slope-intercept form for the line that passes through (–1, 6) and is parallel to the	e
Example: Find the slope i	tercept form of the line parallel to the function $3x - 4y = 9$ and contains the point (-4.	, 7)
Example: Given the point sides parallel?	A (-3, 5) B (4, 5) C (1, 1) and D (-6, 1) represent quadrilateral ABCD, are any of the	
Slope of AB	Slope of BC	
Slope of CD	Slope of AD	

Perpendicular Lines		
Example: Write an equation in slope-inte to the graph of $2x - 3y = 9$ .	ercept form for the line that passes through (-4, 2	2) and is perpendicular
Example: Write the equation of the perpe	endicular bisector of segment AB if A (-4, 10) and	d B (2, -4).
1) Perpendicular Slope	2) Midpoint	
3) Substitute the perpendicular slope and intercept form.	midpoint you found into the point-slope formula, th	nen reduce to slope-
intercept form.		