FSAP 10)		
Different	Forms	of the	Line

- 1. If given a line in standard form, how do you re-write this same line in slope-intercept form?
- 2. Re-write 2x 3y = 12 in slope-intercept form. What is the line's slope? What is its y-intercept?
- 3. y = mx + b is called slope-intercept form. What y value do you get if you let x = 0. What does this confirm about b?
- 4. Remember you only need two points to graph a line. Graph 3x 2y = 6 by first finding the x-intercept and the y-intercept. Explain why this might be considered easier than finding the slope and y-intercept.
- 5. A line has slope -2 and passes through A(3, -4). What is the equation of this line in standard form?
- 6. If you know a line has slope 3 and passes through the point A(2, -5) why might some people be tempted to give the equation of the line as y = 3x 5? What is the actual equation of the line in slope-intercept form.
- 7. What are the benefits of each form of the line? Make a table.