

FSAP 10  
Summary of Lines

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

1. Slope-intercept form is  $y = mx + b$ . What do  $m$  and  $b$  stand for?
2. If a line has slope -2 and  $y$ -intercept 10, what is its equation in slope intercept form?
3. If a line passes through  $A(0, -4)$  and  $B(2, 2)$  what is its equation in slope-intercept form?  
Why is point  $A$  a nice point for slope-intercept form?
4. Let  $y = 2x - 3$ . What is this line's  $x$ -intercept?
5. A line passes through  $A(2, -3)$  and  $B(-1, -2)$ . What is its equation in slope-intercept form?
6. Let  $x + 2y = 2$ . What is the slope of this line? What is its  $y$ -intercept?
7. Let  $2x - 3y = 6$ . What is this line's  $x$  and  $y$  intercepts? How do you re-write this line in slope-intercept form?
8. If a lines has slope 3 and passes through  $A(2, 2)$  and  $B(x, 6)$  what value must  $x$  be?
9. Your car's gas tank holds 13 gallons of gasoline. If your car uses gas at a constant rate of 0.05 gallons per mile, write a model of how much gas is in the tank of your car versus how many miles you traveled if you start with a full tank of gas. How far can you get on one tank of gas?