Find the equation that passes through the points.

1) (-1,-5) (0,5)   slope = _____

2) (-5,-3) (5,-1)   slope = _____

3) (5,-3) (-3,-2)   slope = _____

4) (5,-5) (1,5)   slope = _____

5) (5,3) (2,4)   slope = _____

6) (-5,-1) (5,-5)   slope = _____

Find the x and y intercept for the following equations
and then graph the equation.

1. $5x + 2y = 10$

2. $2x + 8y = 24$

3. $4x + 3y = 24$

4. $9x + 3y = 18$

1. Compare the two functions and determine which
has the greater rate of change
Function 1: $y = 2x + 4$
Function 2:

x	-1	0	2
y	-6	-3	3

2.   Compare the two linear functions below and determine
which has a negative rate of change

Function 1: Sam starts with $20 on a gift card for the bookstore. He spends $3.50 per week to by a magazine. Let y be the amount remaining as a function of the number of weeks x.

x	0	1	2	3
y	20.00	16.5	13.00	9.5

Function 2: The school bookstore rents graphing calculators for $5 per month. It also collects a non-refundable fee of $10.00 for the school year. Write the rule for the total cost (c) of renting a calculator as a function of the number of months
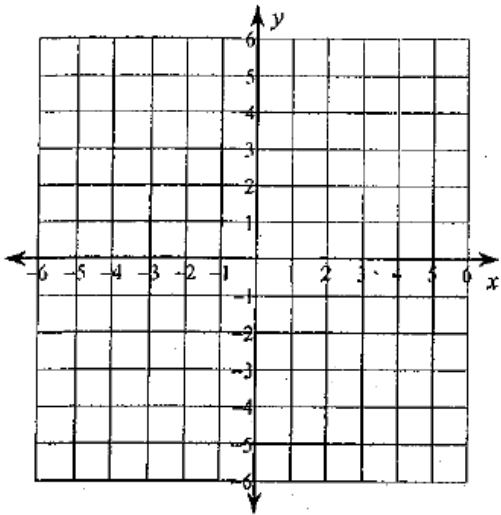
3. Which function has a greater rate of change

a. 5x + 2y = 10

b. 2x + 8y = 24

Sketch the graph of each line.

1) $y = -\dfrac{3}{5}x + 5$

2) $y = -\dfrac{1}{2}x$