Introduction to y = mx + b
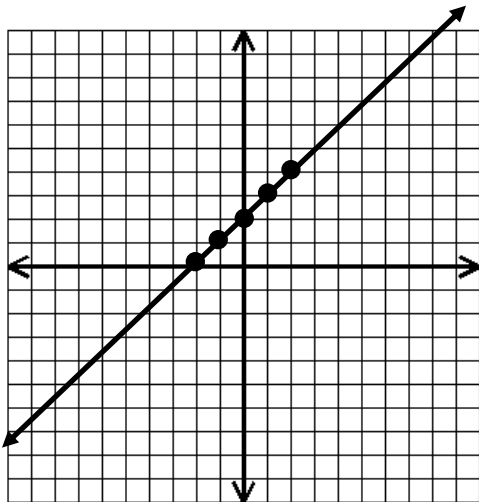
Fill in the table, find the rate of change, and write an equation for each line shown.

1.

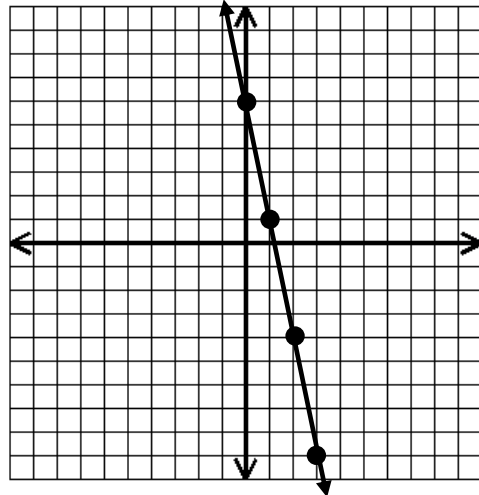| x	y
-1	
0	
1	
2	

Rate of Change: _____

Beginning: _____

Does the graph increase or decrease?

Equation: _____

2.

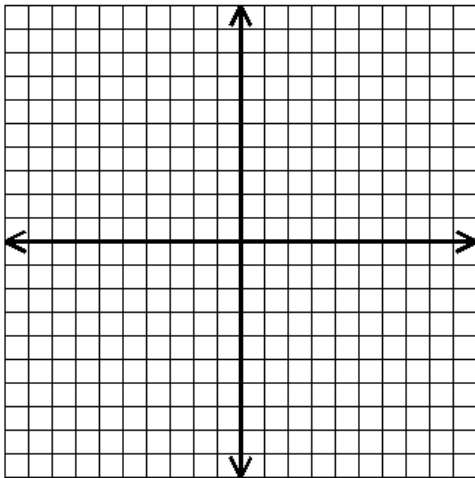| x	y
0	
1	
2	
3	

Rate of Change: _____

Beginning: _____

Does the graph increase or decrease?

Equation: _____

3. Equation: $y = \dfrac{5}{3}x - 4$

Use your calculator to fill in the table:

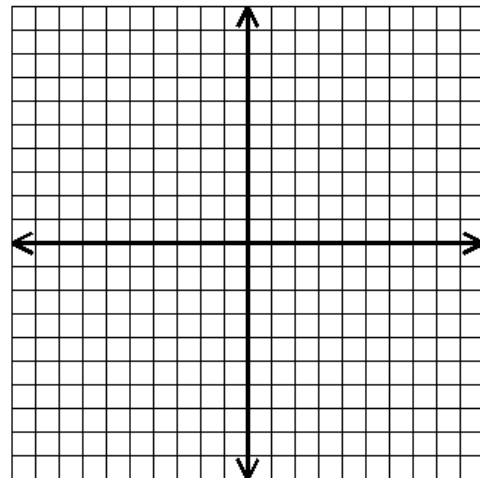| x	y
-3	
0	
3	
6	

Rate of Change: _____

Beginning: _____

Does the graph increase or decrease?

4. Equation: $y = -0.2x + 6$

Use your calculator to fill in the table:

x	y
-10	
-5	
5	
10	

Rate of Change: _____

Beginning: _____

Does the graph increase or decrease?

REVIEW:

5. If $f(x) = 5 - 3x$ and $g(x) = 2x^2 - 4$:

      a) find $g(2) - f(1)$: _____

      b) find $f(x)$ when $x = 7$: _____

      c) find x, when $f(x) = 23$: _____