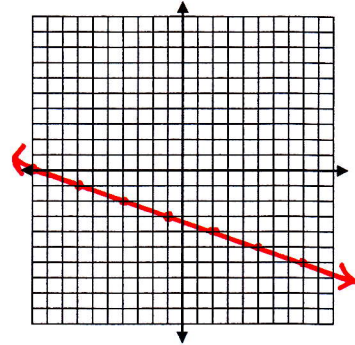


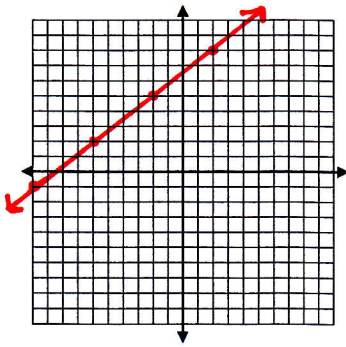
### 5.3 – Graphing Lines in $y = mx + b$ Form

Through the given point, draw a line with the given slope.

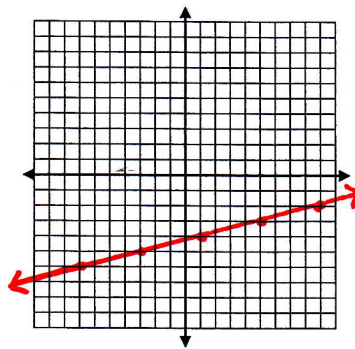
1.  $A(-3, 1)$ ; slope =  $3 = \frac{3}{1}$   $\updownarrow$   $\leftrightarrow$



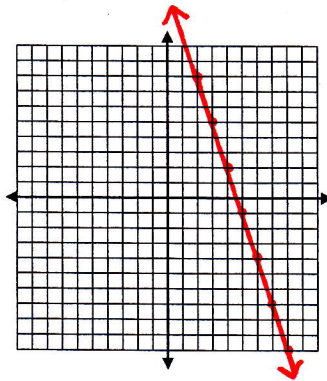
2.  $B(5, 2)$ ; slope =  $-\frac{4}{3}$



3.  $C(-3, -5)$ ; slope =  $-4 = -\frac{4}{1}$



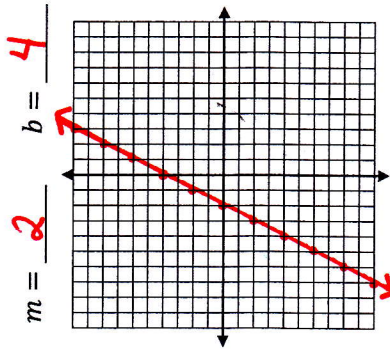
4.  $D(2, -4)$ ; slope =  $\frac{1}{3}$



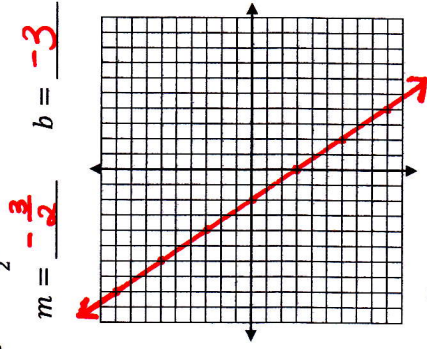
The graph of the equation  $y = mx + b$  is a line whose slope is  $m$  and whose y-intercept is  $b$ .

State the slope and the y-intercept. Then graph the line.

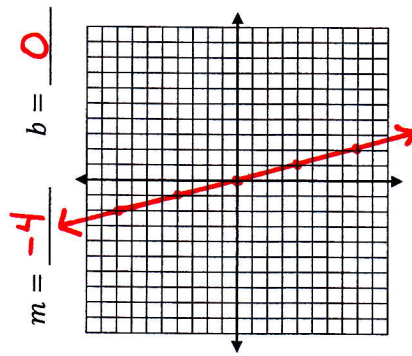
5.  $y = 2x + 4$



6.  $y = -\frac{3}{2}x - 3$



7.  $y = -4x$



8.  $y = \frac{5}{3}x - 4$

