April 27th
Friday

1. For each relation, state the slope and y-intercept.

a) $y = -\frac{1}{4}x + 11$

slope: _____

y-intercept: _____

b) $y = 5x - 9$

slope: _____

y-intercept: _____

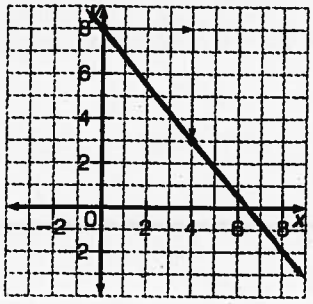
2. Use the given information to write the equation of each line in the form $y = mx + b$.

a) slope $= -\frac{1}{3}$ and y-intercept $= 2$ _____

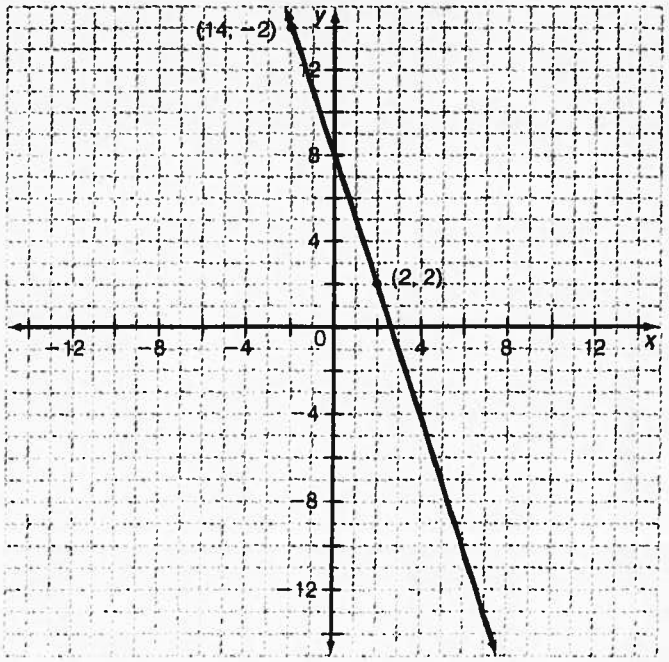
b) $m = 4$ and $b = -3$ _____

c) parallel to $y = 3x - 5$ and y-intercept $= 8$ _____

d) Determine the slope and y-intercept of this line.



e) Write the equation for each graph below. First determine the slope and y-intercept.

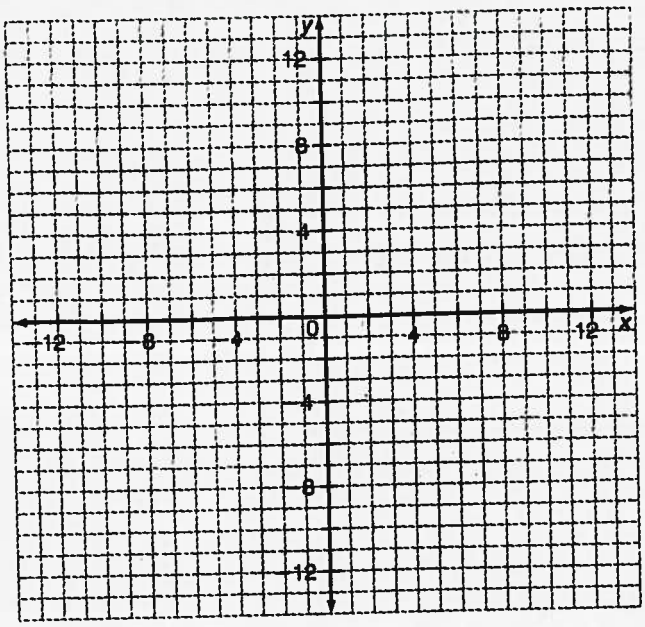


slope: _____

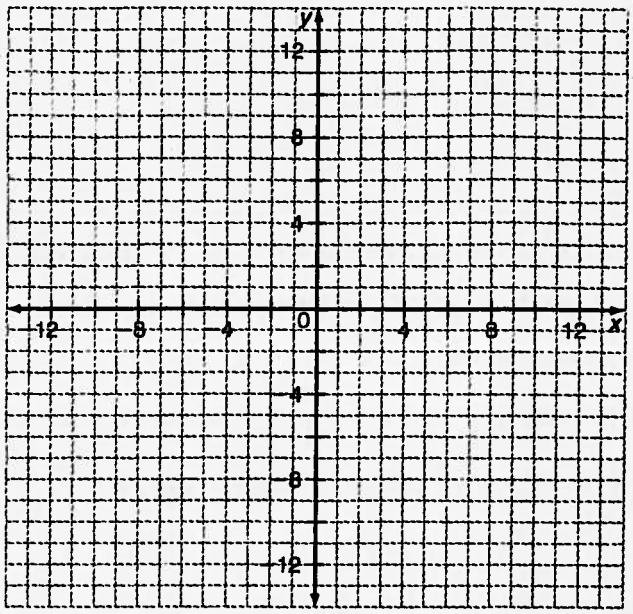
y-intercept: _____

equation: _____

3. Graph each line from the given information.
   a) through the points (2, 4) and (6, 9)
   b) $m = \frac{2}{5}$ and $b = -4$



b)

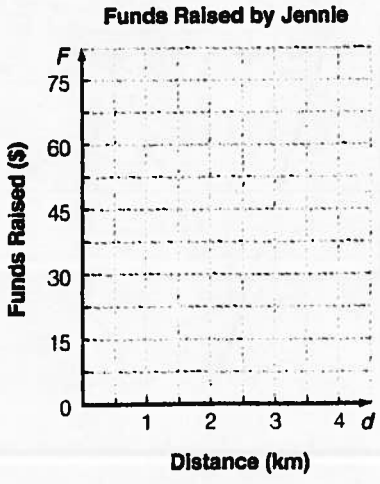


4. Find the equation of the line that passes through this pair of points.
   (4, 3) and (2, 9)

5. Jennie plans to enter a walkathon at school, to raise money for a children's charity. Her neighbour sponsored her for $15.00 per kilometre.
   a) Create a table of values for the 4-km walkathon.

Distance (km)	0	1	2	3	4
Funds Raised ($)					

   b) Plot the points, then join them with a line.



   c) Find the equation for the line.