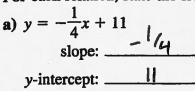
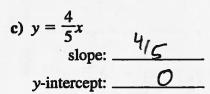
Practise: Graph Linear Relations by Hand

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



slope: 5
y-intercept: -9

b) y = 5x - 9

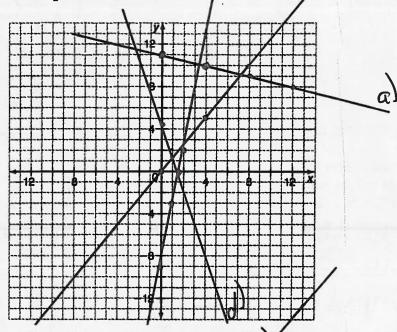


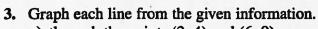
2. Graph each line in question 1.

d) $y = -3x + \frac{9}{2}$ slope:

y-intercept:

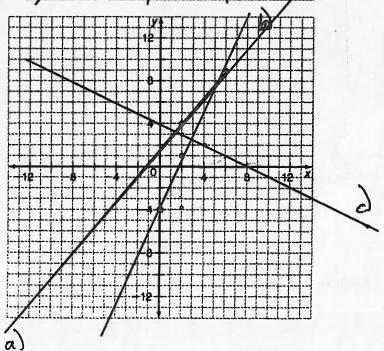






b)
$$m = \frac{2}{5}$$
 and $b = -4$

c)
$$m = -\frac{1}{2}$$
 and through the point (2, 3)

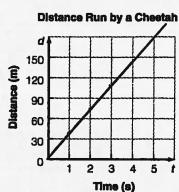


- 4. A cheetah can run 33 m in one second.
 - a) Use this information to create a table of values starting at t = 0 and going to t = 4 s.

Time (s)	0	1	2	3	4
Distance (m)	0	33	66	99	132

b) Plot the data in the table and draw a line passing through the points.

$$m = \frac{33-0}{1-0} = 33$$



no y-int

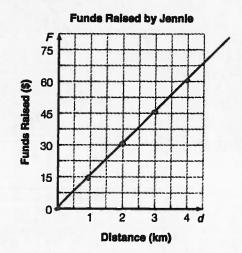
c) Find the equation of the line you drew in part b).

d=33t or y=33x

- 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 (\$)	0	15	30	45	60

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



c) Find the equation for the line.

$$y-inf = 0$$

$$m = \frac{30-0}{2-0} = \frac{30}{2} = 15$$

The equation for the line is _____