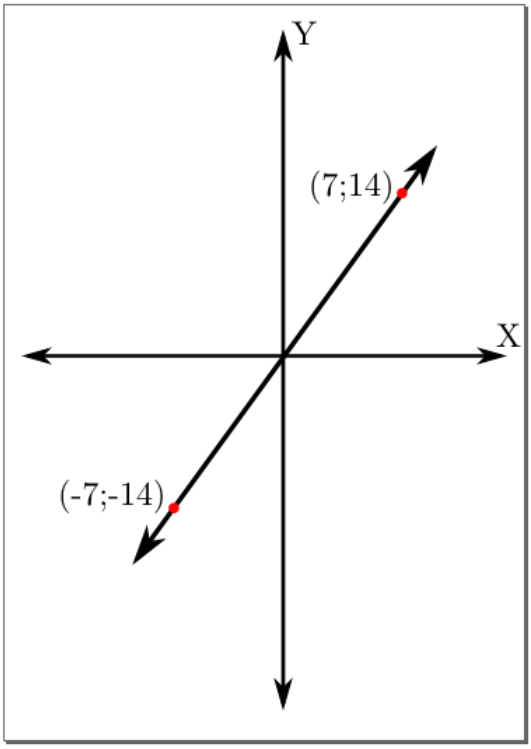
Printable Assessments
CAMI Maths: Grade 9

Drawing graphs

1. Draw y = -4x by completing the table.

x	-3	-1	0	2
y				

2. Determine the equation of the straight line.

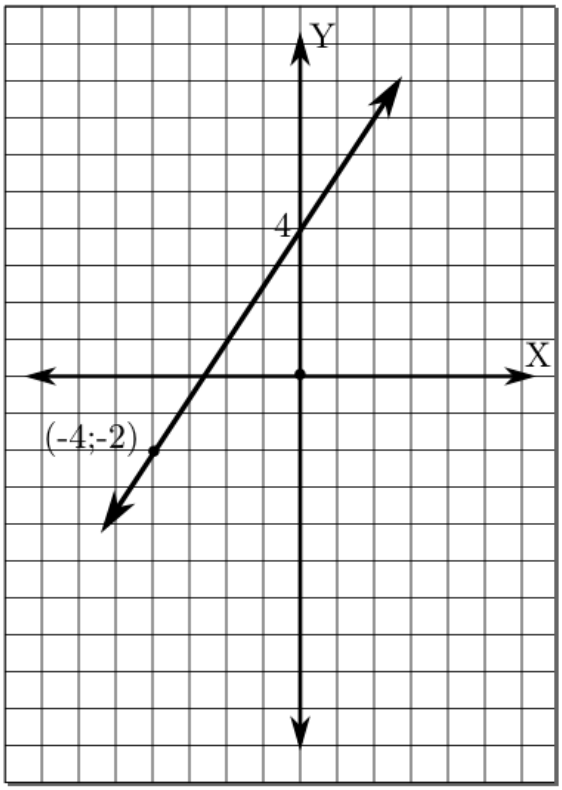


3. Use the table to determine the linear relation between y and x.

3.1

x	-8	-4	0	4
y	-40	-20	0	20

3.2 Use the graph to determine the equation of the straight line.



3.3 Write down the equation of the straight line is the gradient is -3 and the y – Intercept is (0;-4).

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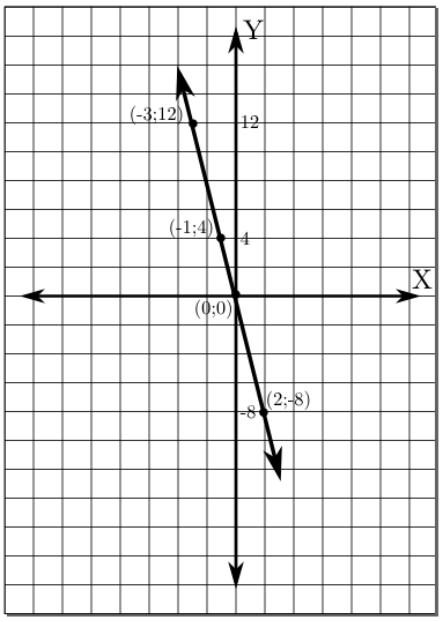
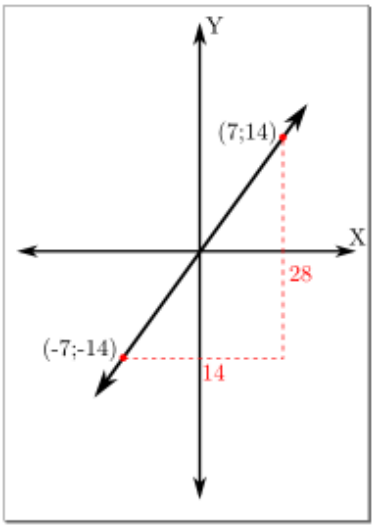
MEMO

1. Draw y = -4x by completing the table. **[6.2.1 to 6.2.6]**

x	-3	-1	0	2
y	12	4	0	-8



2. Determine the equation of the straight line. **[6.2.2]**



$$m = \frac{28}{14} = 2$$

$$y - \text{int}\,ercept : (0;0)$$

$$\therefore y = 2x$$

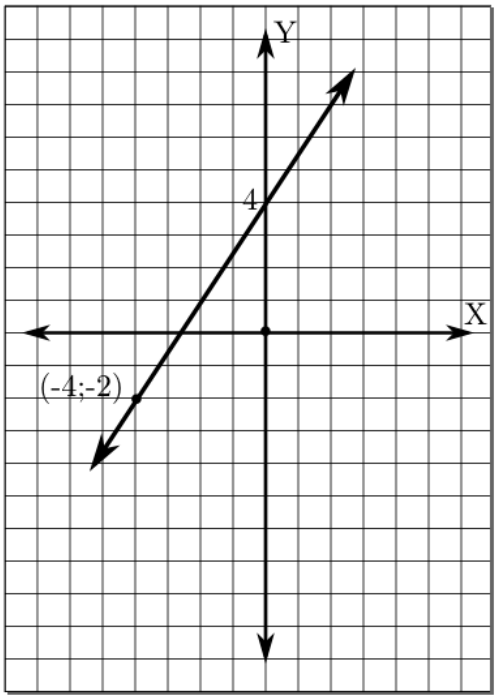
3. Use the table to determine the linear relation between y and x.
[6.2.4; 6.2.6]

3.1

x	-8	-4	0	4
y	-40	-20	0	20

$$m = \frac{-20}{-4} = 5$$
$$\therefore y = 5x$$

3.2 Use the graph to determine the equation of the straight line.



$y = mx + c$
$(0;c) = (0;4)$
$y = mx + 4$
Substitute :
$-2 = m(-4) + 4$
$-6 = -4m$
$m = \frac{2}{3}$
$y = \frac{2}{3}x + 4$

3.3 Write down the equation of the straight line is the gradient is -3 and the y – Intercept is (0;-4).

$y = mx + c$

$y = -3x + c$

$c = -4$

$\therefore y = -3x - 4$