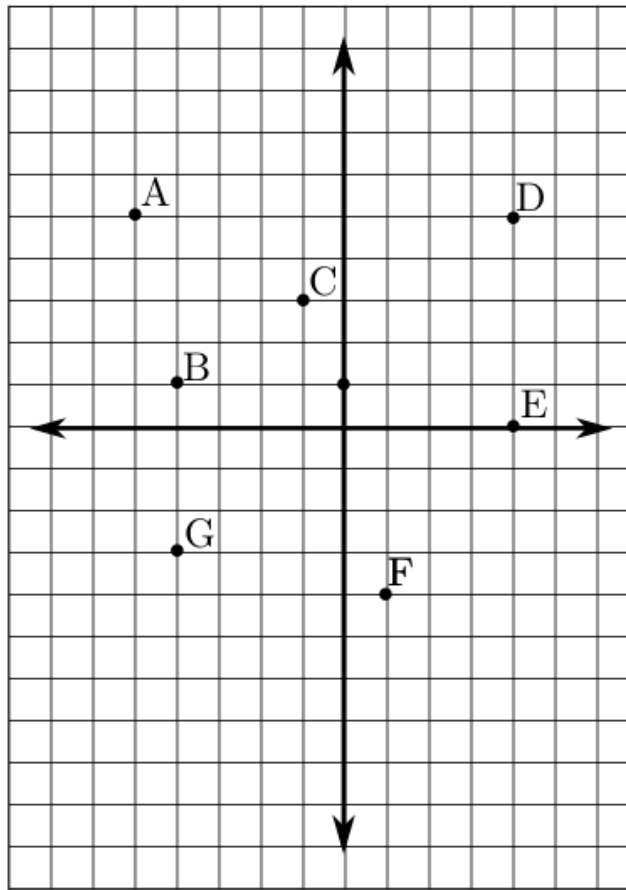




# Printable Assessments CAMI Maths: Grade 9

## Graphs and Cartesian plane

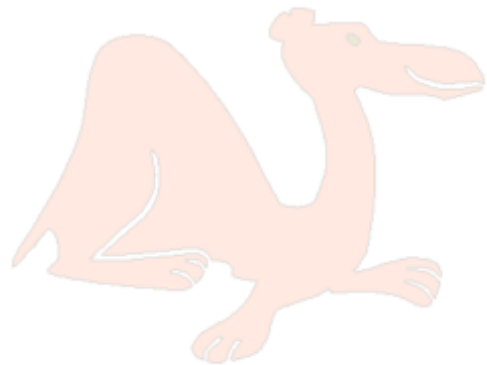
1. Use the Cartesian plane to answer the given questions.



- 1.1 Write down the coordinate of A, B, C, E and G.
- 1.2 Determine the distance between D and E.
- 1.3 Find the length of BG.
- 1.4 What is the x-value of C?
- 1.5 What is the y-value of E?

2. Calculate the following:

- 2.1 Calculate  $f(2)$  if  $f(x) = -x + 6$
- 2.2  $g(3) - g(-1)$  if  $g(x) = x^2 + 2$

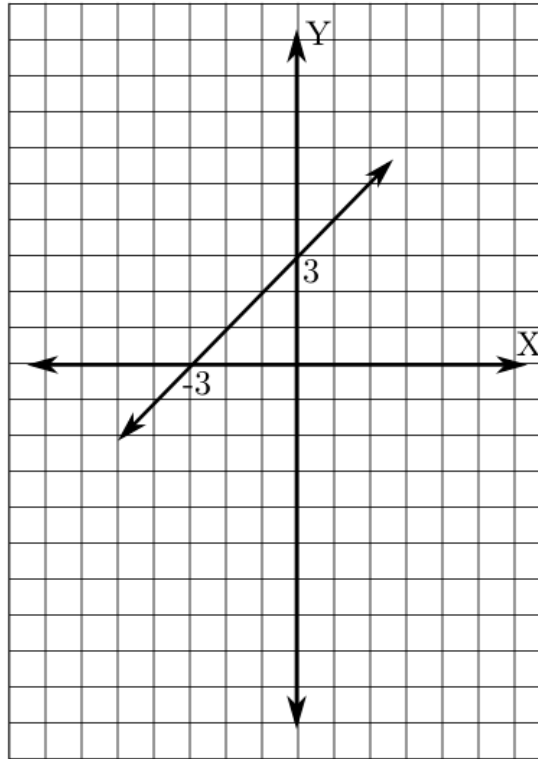




# Printable Assessments CAMI Maths: Grade 9

3. Use the graph to answer the questions.

The graph represents  $f(x) = x + 3$



3.1 Find the  $x$  – intercept for the graph.

3.2 Find the  $y$  – intercept of the graph.

3.3 Complete the table using  $f(x)$ .

$x$	-2	1	6
$f(x)$			

3.4 Is the given graph discrete or continuous?

3.5 Write down the gradient of the graph.

4. Write down the gradient and  $y$  – intercept for each straight line graph.

4.1  $2y + x = 7$

4.2  $2x - 6y = 4$

4.3  $y = 4 - x$

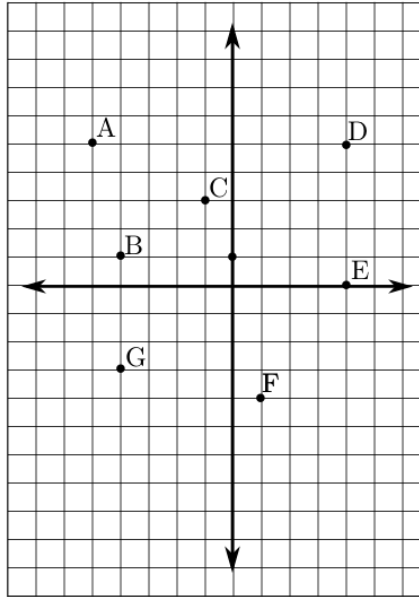




# Printable Assessments CAMI Maths: Grade 9

## MEMO

1. Use the Cartesian plane to answer the given questions.  
[6.1.1; 6.1.2.1; 6.12.2; 6.1.2.3]



1.1 Write down the coordinate of A, B, C, E and G.

A(-5 ; 5), B(-4 ; 1), C(-1 ; 3), E(4 ; 0) and G(-4 ; -3 )

1.2 Determine the distance between D and E.

$$DE = 5$$

1.3 Find the length of BG.

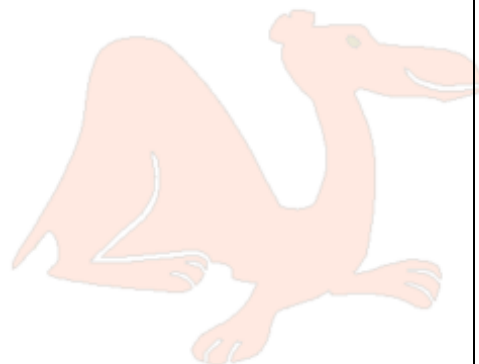
$$BG = 4$$

1.4 What is the x-value of C?

$$x = -1$$

1.5 What is the y-value of E?

$$y = 0$$





## Printable Assessments CAMI Maths: Grade 9

2. Calculate the following:

[6.1.3]

2.1 Calculate  $f(2)$  if  $f(x) = -x + 6$

$$f(x) = -x + 6$$

$$f(2) = -(2) + 6$$

$$f(2) = 4$$

2.2  $g(3) - g(-1)$  if  $g(x) = x^2 + 2$

$$g(x) = x^2 + 2$$

$$g(3) = (3)^2 + 2 = 11$$

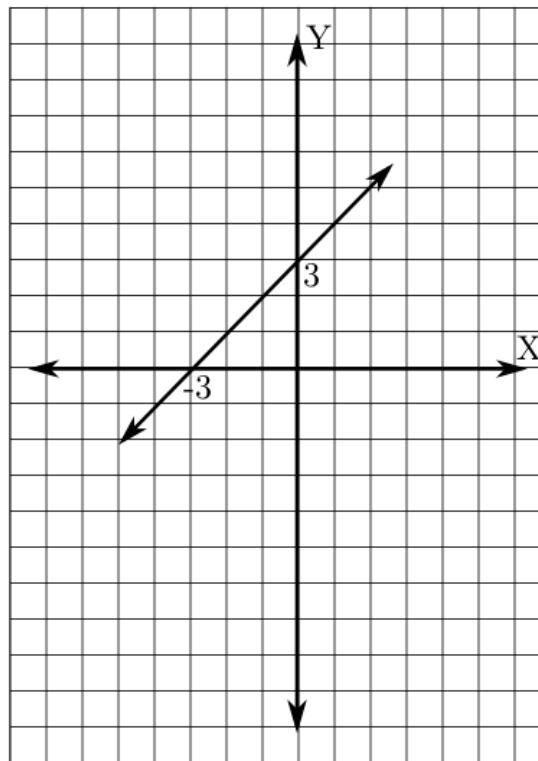
$$g(-1) = (-1)^2 + 2 = 3$$

$$g(3) - g(-1) = 11 - 3 = 8$$

3. Use the graph to answer the questions.

[6.1.3; 6.1.4; 6.1.5; 6.1.6]

The graph represents  $f(x) = x + 3$





## Printable Assessments CAMI Maths: Grade 9

3.1 Find the x – intercept for the graph.

(-3 ; 0)

3.2 Find the y – intercept of the graph.

(0 ; 3)

3.3 Complete the table using f(x).

x	-2	1	6
f(x)	1	4	9

3.4 Is the given graph discrete or continuous?

continuous

3.5 Write down the gradient of the graph.

m = 1

4. Write down the gradient and y – intercept for each straight line graph.

[6.3.1.1; 6.3.1.2]

4.1  $2y + x = 7$

$$2y + x = 7$$

$$\therefore y = -\frac{x}{2} + \frac{7}{2}$$

$$m = -\frac{1}{2}; (0; \frac{7}{2})$$

4.3  $y = 4 - x$

$$y = -x + 4$$

$$m = -1; (0; 4)$$

4.2  $2x - 6y = 4$

$$-6y = -2x + 4$$

$$\therefore y = \frac{-2}{-6}x + \frac{4}{-6}$$

$$\therefore y = \frac{1}{3}x - \frac{2}{3}$$

$$m = \frac{1}{3}; (0; -\frac{2}{3})$$

