

6. Let  $f(x) = 2x^2 - 3x + 1$ .

(a) Factorise the polynomial  $f(x)$ . (3 marks)

(b) Write  $f(x)$  as  $a(x - h)^2 + k$ . (3 marks)

(c) Use the following graph to determine the  $x$ -intercepts of  $f(x)$ . (3 marks)

(d) In the Cartesian plane, sketch the graph of  $f(x)$  and the  $x$ -axis. (3 marks)

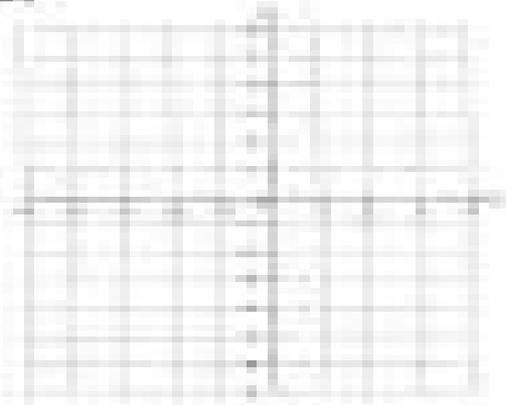
(e) Find the coordinates of  $h$ . (3 marks)

(f) Find the magnitude of  $k$ . (3 marks)

(g) Sketch the graph of the function  $f(x)$  on the Cartesian plane. (3 marks)

7. The following diagram shows a circle with centre  $O$  and radius  $10$  cm.

A point  $P$  is on the circumference of the circle. The chord  $OP$  is drawn and the perpendicular bisector of  $OP$  is drawn.



Area (cm <sup>2</sup> )	$\theta$ (degrees)	$r$ (cm)	$\alpha$ (degrees)
100	90	10	90

(a) Find the probability that the spinner will stop on the green. (3 marks)

The spinner is spun twice in succession. The following table

Spin 1	2	3	4	5	6	7	8	9	10
Spin 2	2	3	4	5	6	7	8	9	10

(b) Draw the graph of the joint probability density function. (3 marks)

(c) Find the probability that the sum of the two spins is 10. (3 marks)

(d) Find the probability that the sum of the two spins is 10. (3 marks)

8. Let  $f(x) = 2x^2 - 3x + 1$ . Let  $g(x) = 2x^2 - 3x + 1$ . Let  $h(x) = 2x^2 - 3x + 1$ .

(a) Factorise the polynomial  $f(x)$ . (3 marks)

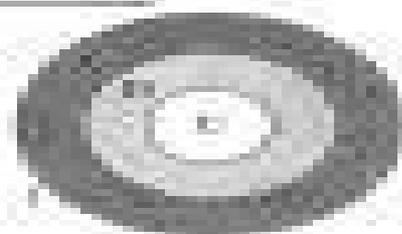
(b) Write  $f(x)$  as  $a(x - h)^2 + k$ . (3 marks)

(c) Find the value of  $h$ . (3 marks)

(d) Sketch the graph of the function  $f(x)$  on the Cartesian plane. (3 marks)

9. The following diagram shows a circle with centre  $O$  and radius  $10$  cm.

A point  $P$  is on the circumference of the circle. The chord  $OP$  is drawn and the perpendicular bisector of  $OP$  is drawn.



# Ib Sl Maths Nov 2014

**Annelies Wilder-Smith**



**Ib SI Maths Nov 2014:**

## **Ib Sl Maths Nov 2014** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Ib Sl Maths Nov 2014**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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