

Topic Assessment

1. Given that  $y = \frac{1}{2\sqrt{x}}$ , write down  $\frac{dy}{dx}$ . [2]

2. A curve has equation  $y = x^3 + 4x^2 - 3x + 1$ .  
 (a) Sketch the gradient function for the curve. [3]  
 (b) State the range of values of  $x$  for which  $x^3 + 4x^2 - 3x + 1$  is decreasing. [2]

3. Show that the only stationary point on the curve  $y = 2x^2 - \sqrt{x}$  is a minimum point. [4]

4. A curve has equation  $y = 2x^3 - 3x^2 - 8x + 9$ .  
 Find the equations of the two tangents to the curve which have gradient 4. [5]

5. (a) Find the equation of the normal to the graph  $y = x - \frac{2}{x^2}$  at the point where  $x = 1$ . [3]  
 (b) Show that the normal does not meet the curve again. [5]

6. Sabah is using a spreadsheet to investigate the gradient of the curve  $y = x^4$ . She uses the spreadsheet to calculate the gradient of the chord from the point where  $x = 2$  to the point where  $x = 2 + h$  for different values of  $h$ . Part of her spreadsheet is shown below.

	A	B	C	D	E	F
1	$x$	$f(x)$	$h$	$x+h$	$f(x+h)$	Gradient
2	2	16	1	3	81	65
3	2	16	0.1	2.1		34.481
4	2	16	0.01	2.01	16.32240601	
5	2	16	0.001		16.00202401	32.0024008
6	2	16	0.0001	2.0001	16.00320024	32.00240008

(a) Fill in the missing values in cells D5, E3 and F4. [4]  
 (b) Use differentiation from first principles to show that the gradient of the curve  $y = x^4$  at the point where  $x = 2$  is 32. [3]

7. In this question you must show detailed reasoning.

Find the stationary points of the graph  $y = \frac{1}{x} + \frac{1}{x^2} - \frac{1}{x^3}$ .  
 Determine the nature of each. [7]

8. Two real numbers  $x$  and  $y$  are such that  $kx + y = 100$ , where  $k$  is a positive constant. Find, in terms of  $k$ , the maximum value of the product of the two numbers. [5]

9. A cuboid has a square base of length  $x$  cm and height  $y$  cm. The surface area of the cuboid is  $24 \text{ cm}^2$ .  
 (a) Show that  $V = 6x - 0.5x^3$ . [3]  
 (b) Show that the maximum volume of the cuboid occurs when  $x = 2$ , and find this maximum volume. [4]

Total 50 marks

# Mei M1 Topic Assessment Answers

**Christian G. Meyer**



**Mei M1 Topic Assessment Answers :**

## Decoding **Mei M1 Topic Assessment Answers** : Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mei M1 Topic Assessment Answers** ," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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