

Topic Assessment

- Given that $y = \frac{1}{2\sqrt{x}}$, write down $\frac{dy}{dx}$. [2]
- A curve has equation $y = x^3 + 4x^2 - 3x + 1$.
 - Sketch the gradient function for the curve. [3]
 - State the range of values of x for which $x^3 + 4x^2 - 3x + 1$ is decreasing. [2]
- Show that the only stationary point on the curve $y = 2x^2 - \sqrt{x}$ is a minimum point. [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]
- Find the equation of the normal to the graph $y = x - \frac{2}{x^2}$ at the point where $x = 1$. [3]
 - Show that the normal does not meet the curve again. [5]
- 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

 - Fill in the missing values in cells D5, E3 and F4. [4]
 - 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]
- 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]
- 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]
- A cuboid has a square base of length x cm and height y cm. The surface area of the cuboid is 24 cm^2 .
 - Show that $V = 6x - 0.5x^3$. [3]
 - 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

Chao Zhang



Mei M1 Topic Assessment Answers:

The book delves into Mei M1 Topic Assessment Answers. Mei M1 Topic Assessment Answers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mei M1 Topic Assessment Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Mei M1 Topic Assessment Answers
- Chapter 2: Essential Elements of Mei M1 Topic Assessment Answers
- Chapter 3: Mei M1 Topic Assessment Answers in Everyday Life
- Chapter 4: Mei M1 Topic Assessment Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mei M1 Topic Assessment Answers. The first chapter will explore what Mei M1 Topic Assessment Answers is, why Mei M1 Topic Assessment Answers is vital, and how to effectively learn about Mei M1 Topic Assessment Answers.

3. In chapter 2, this book will delve into the foundational concepts of Mei M1 Topic Assessment Answers. The second chapter will elucidate the essential principles that must be understood to grasp Mei M1 Topic Assessment Answers in its entirety.

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6. In chapter 5, the author will draw a conclusion about Mei M1 Topic Assessment Answers. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mei M1 Topic Assessment Answers.

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