

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 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

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