

# 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		16.003202401	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

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**Jiyuan Zhang**



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