

# Pearson Edexcel A Level Mathematics 9MA0

## Unit Test 8 Differentiation

Time allowed: 50 minutes

School: [www.CasperYC.club](http://www.CasperYC.club)

Name:

Teacher:

How I can achieve better:

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Question	Points	Score
1	6	
2	8	
3	6	
4	5	
5	5	
6	8	
7	6	
8	2	
9	4	
Total:	50	









4. Given that  $x = \sec(4y)$ , find

(a)  $\frac{dy}{dx}$  in terms of  $y$ .

[2]

(b) Show that

[3]

$$\frac{dy}{dx} = \frac{k}{x\sqrt{x^2 - 1}}$$

where  $k$  is a constant which should be found.

Total: 5











