

Pearson Edexcel A Level Mathematics 9MA0

Unit Test 1 Proof

Time allowed: 50 minutes

School: www.CasperYC.club

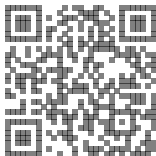
Name:

Teacher:

How I can achieve better:

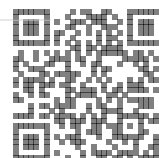
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Question	Points	Score
1	4	
2	3	
3	5	
4	5	
5	4	
6	4	
7	4	
8	5	
9	10	
10	6	
Total:	50	



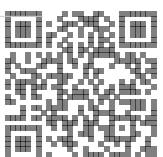
- [2]

- [2]



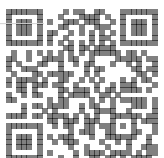
[3]

for positive integers from 1 to 6 inclusive.

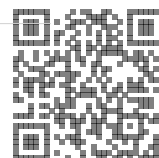


3. Use proof by contradiction to prove the statement: ‘The product of two odd numbers is odd.’

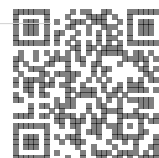
[5]



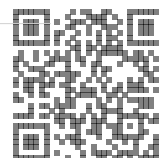
[5]



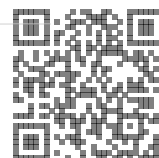
[4]



[4]

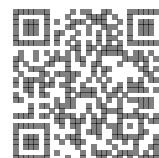


7. Use proof by contradiction to show that, given a rational number a and an irrational number b , $a - b$ is irrational. [4]

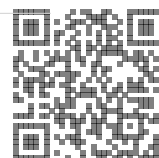


[5]

$$x^2 - y^2 = 1.$$



- Total: 10



[6]

