<u>Proof – A2 Mathematics P3</u>

1. June/2022/Paper_7357/03/No.9

Assume that a and b are integers such that

$$a^2 - 4b - 2 = 0$$

Prove that a is even.	[2 m
Hence, prove that $2b+1$ is even and explain why this is a contradiction	n. [3 m

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(c)

Explain what can be deduced about the solutions of the equation	
$a^2 - 4b - 2 = 0$	[1 mark]