Advanced Higher Maths
SQA 2016 Specimen
Question 12

Advanced Higher Maths
Maths.scot

(a) Given that m and n are positive integers state the negation of the statement:
m is even or n is even. **1**

(b) By considering the contrapositive of the following statement:
if mn is even then m is even or n is even,
prove that the statement is true for all positive integers m and n. **3**

Answers:

(a) m is odd and n is odd.

(b) Direct proof of the contrapositive, i.e. that if m and n are both odd then mn is odd.