

Advanced Higher Maths
SQA 2023 Paper 2
Question 6



-
- (a) Use the Euclidean algorithm to find d , the greatest common divisor of 703 and 399. 1
- (b) Find integers a and b such that $d = 703a + 399b$. 2
- (c) Hence find integers p and q such that $76 = 703p + 399q$. 1
-

Answers:

- (a) 19
- (b) $a = 4, b = -7$
- (c) $p = 16, q = -28$