

**Advanced Higher Maths**  
**SQA 2021 Paper 2**  
**Question 2**



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- (a) Use the Euclidean algorithm to find integers  $a$  and  $b$  such that  $105a + 72b = 3$ . **3**
- (b) Hence find integers  $x$  and  $y$  such that  $105x + 72y = 360$ . **1**
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Answers:

- (a)  $a = 11, b = -16$
- (b)  $x = 1320, y = -1920$