

Advanced Higher Maths  
SQA 2019 Paper  
Question 4



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(a) Express  $\frac{3x^2 + x - 17}{x^2 - x - 12}$  in the form  $p + \frac{qx + r}{x^2 - x - 12}$ , where  $p$ ,  $q$  and  $r$  are integers. 1

(b) Hence express  $\frac{3x^2 + x - 17}{x^2 - x - 12}$  with partial fractions. 3

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Answers:

(a)  $3 + \frac{4x + 19}{x^2 - x - 12}$

(b)  $3 - \frac{1}{x + 3} + \frac{5}{x - 4}$