

**Advanced Higher Maths**  
**SQA 2018 Paper**  
**Question 6**



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On a suitable domain, a curve is defined parametrically by  $x = t^2 + 1$  and  $y = \ln(3t + 2)$ .

Find the equation of the tangent to the curve where  $t = -\frac{1}{3}$ .

5

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Answer:

$$y = -\frac{9}{2}x + 5$$