

Higher Maths  
SQA 2018 Paper 1  
Question 10



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Given that

- $\frac{dy}{dx} = 6x^2 - 3x + 4$ , and
- $y = 14$  when  $x = 2$ ,

express  $y$  in terms of  $x$ .

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Answer:

$$y = 2x^3 - \frac{3}{2}x^2 + 4x - 4$$