

Advanced Higher Maths  
SQA 2022 Paper 2  
Question 4



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Use integration by parts to find  $\int (x+2)(2x+7)^{\frac{1}{2}} dx$ .

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Answer:

$$\frac{1}{3}(x+2)(2x+7)^{\frac{3}{2}} - \frac{1}{15}(2x+7)^{\frac{5}{2}} + c$$