Advanced Higher Maths
SQA 2018 Paper
Question 8

Using the substitution $u = \sin\theta$, or otherwise, evaluate

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{2}} 2\sin^4\theta\cos\theta\, d\theta. \qquad 4$$

Answer:

$\frac{31}{80}$ (or 0·3875)