

Higher Maths
SQA 2023 Paper 1
Question 11



(a) Evaluate $\int_{\frac{\pi}{2}}^{\pi} (5 \sin x - 3 \cos x) dx$.

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The diagram in your answer booklet shows the graphs with equations $y = 5 \sin x$ and $y = 3 \cos x$, $0 \leq x \leq 2\pi$.

(b) On the diagram in your answer booklet, shade the area represented by the integral in (a).

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Answers:

(a) 8

