## Higher Maths SQA 2023 Paper 1 Question 11



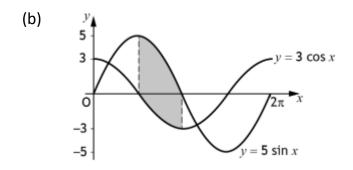
(a) Evaluate 
$$\int_{\frac{\pi}{2}}^{\pi} (5\sin x - 3\cos x) dx.$$

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

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

## Answers:





1

3