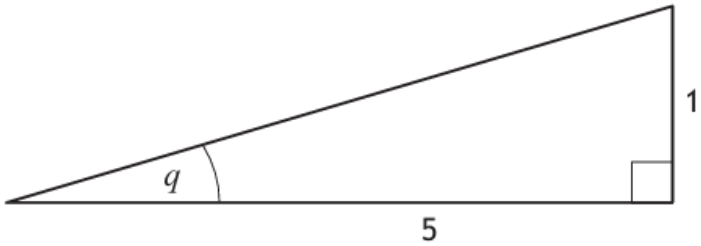
Higher Maths
SQA 2025 Paper 1
Question 6

The diagram shows a right-angled triangle with angle q.

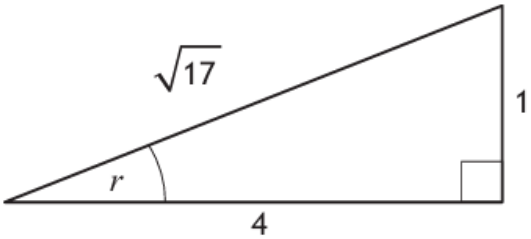


(a) Determine the value of:

(i) $\sin 2q$ **3**

(ii) $\cos 2q$. **1**

A second right-angled triangle has angle r as shown.



(b) Find the value of $\sin(2q - r)$. **3**

Answers:

(a) (i) $\frac{5}{13}$

(ii) $\frac{12}{13}$

(b) $\frac{8}{13\sqrt{17}}$

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