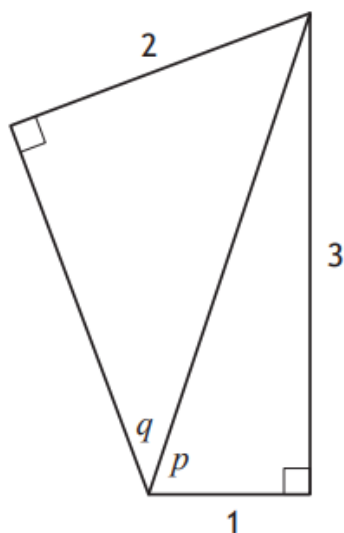


Higher Maths
SQA 2021 Paper 1
Question 5



Two right-angled triangles are shown below.



(a) Determine the value of

(i) $\sin p$

1

(ii) $\cos q$.

2

(b) Find the exact value of $\cos(p + q)$.

3

Answers:

(a) (i) $\frac{3}{\sqrt{10}}$

(ii) $\frac{\sqrt{3}}{\sqrt{5}}$ or $\frac{\sqrt{3}}{\sqrt{5}}$

(b) $\frac{\sqrt{6} - 6}{10}$