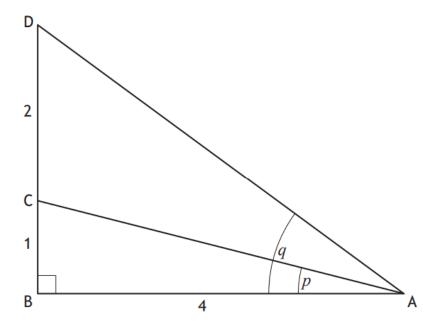
Higher Maths SQA 2018 Specimen Paper 1 Question 12



Triangle ABD is right-angled at B with angles BAC = p and BAD = q and lengths as shown in the diagram below.



Show that the exact value of $\cos(q-p)$ is $\frac{19\sqrt{17}}{85}$.

5

Answer:

Proof using the expansion of $\cos (A - B)$. See marking instructions.