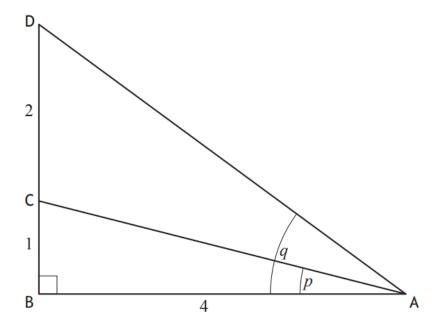
Higher Maths SQA 2016 Paper 1 Question 13



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 $\cos (A - B)$ identity. See marking instructions for details.