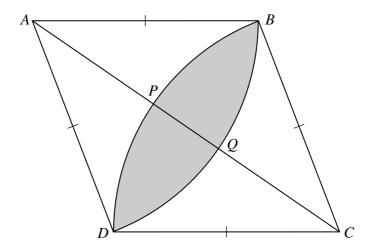
8



The diagram shows a rhombus ABCD. Points P and Q lie on the diagonal AC such that BPD is an arc of a circle with centre C and BQD is an arc of a circle with centre A. Each side of the rhombus has length 5 cm and angle BAD = 1.2 radians.

(i) Find the area of the shaded region *BPDQ*.

[4]

(ii) Find the length of PQ.

[4]