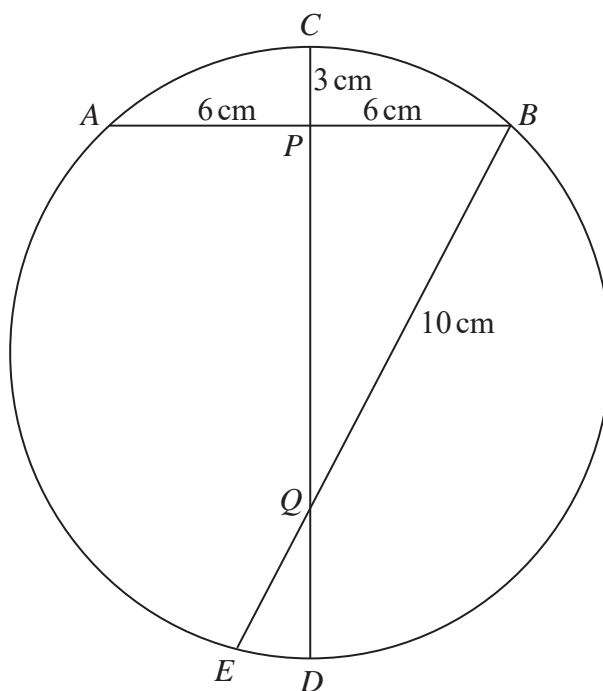


29

Diagram **NOT**
accurately drawn

A , B , C , D and E are points on the circumference of a circle with diameter CD .

The chord AB of the circle intersects the diameter CD at P such that $AP = PB = 6$ cm and $PC = 3$ cm.

The chord BE of the circle intersects the diameter at Q and $BQ = 10$ cm.

(a) Find the length, in cm, of PQ .

$PQ = \dots\dots\dots$ cm
(2)

(b) Find the radius, in cm, of the circle.

$\dots\dots\dots$ cm
(3)



(c) Find the length, in cm, of QE .

$QE = \dots\dots\dots$ cm
(2)

(Total for Question 29 is 7 marks)

TOTAL FOR PAPER IS 100 MARKS

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