8 The nth term of a sequence is given by $100 - \dfrac{1}{2}n^2$
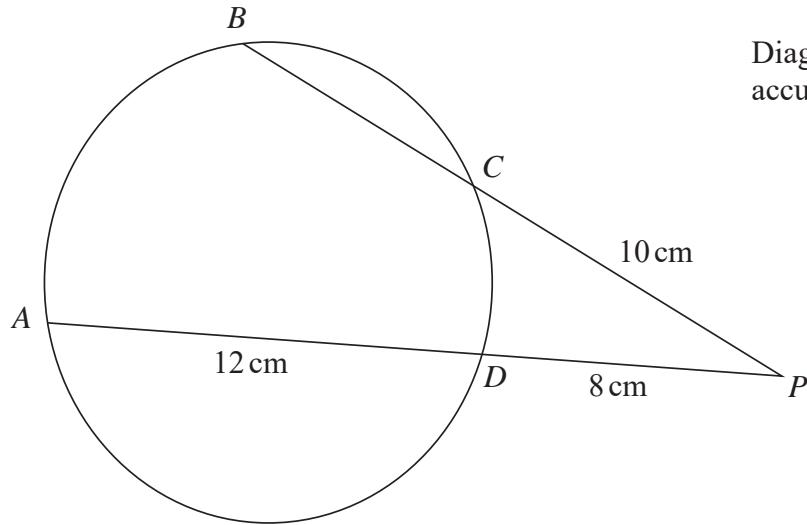
Calculate the difference between the 8th term and the 12th term of the sequence.

....

(Total for Question 8 is 2 marks)

9

Diagram **NOT** accurately drawn

In the diagram, A, B, C and D are four points on the circle $ABCD$.
The point P lies outside the circle $ABCD$ so that BCP and ADP are straight lines.
$CP = 10$ cm, $AD = 12$ cm and $DP = 8$ cm.

Calculate the length, in cm, of BC.

.... cm

(Total for Question 9 is 2 marks)

Turn over ▶