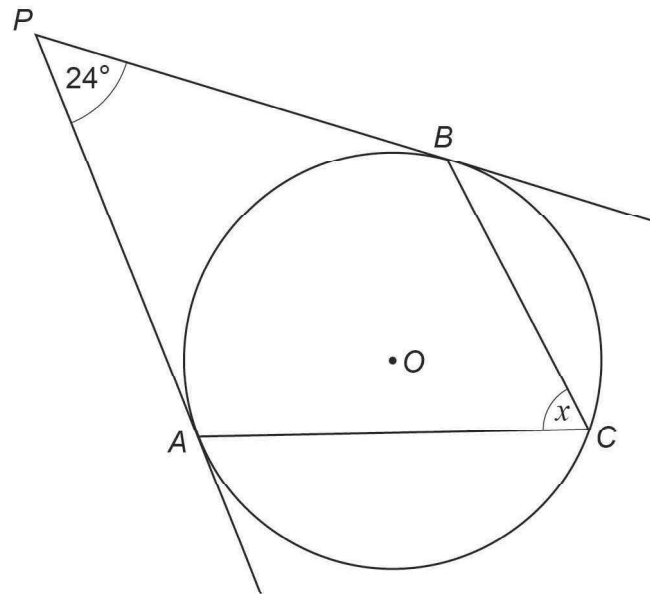


22

A , B and C are points on a circle, centre O .

AP and BP are tangents to the circle.

Not drawn
accurately



Work out the size of angle x .

[3 marks]

Answer _____°



- 23 (a)** The first three terms of a geometric progression are $\frac{\sqrt{5}}{2}$ $\frac{5}{4}$ $\frac{5\sqrt{5}}{8}$

Work out the next term.

[1 mark]

Answer _____

- 23 (b)** The n th term of a sequence is $(2 + \sqrt{3})^n$

Show that the third term is $26 + 15\sqrt{3}$

[3 marks]



[5 marks]

Answer _____

[2 marks]

Show that the value of $6 \sin 30^\circ + 2 \cos 30^\circ \times 4 \tan 30^\circ$ is an integer.

4

