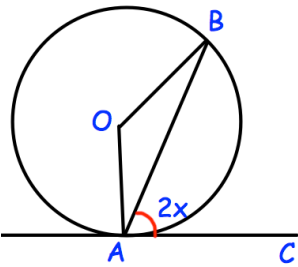


19th August

Corbettmaths

Show using algebra

$$1.0\dot{2}\dot{4} = 1\frac{4}{165}$$



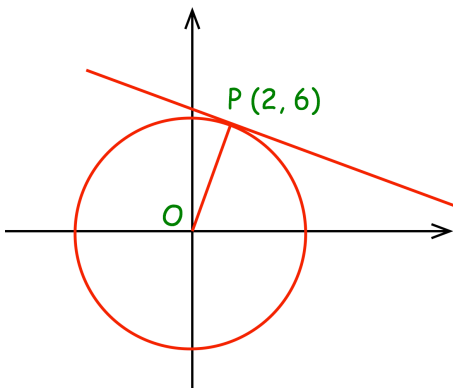
A and B are points on the circumference of a circle, centre O.

CA is a tangent to the circle.

Angle CAB = $2x$

Prove that angle AOB = $4x$

Give reasons for each stage of your working.



The diagram shows the circle $x^2 + y^2 = 40$ with a tangent at the point (2, 6)

Find the area of the circle

Find the equation of the tangent