Circle Theorems: A tangent and radius are perpendicular at the point of contact

Maths

Mr Chan

1. TP is a tangent and OP is the radius of the circle.



Work out the value of angle x and y. Give a reason for your answers. 2. Work out the size of each angle

marked with a letter.



3. AB and AC are tangents to the circle.

4. AB and AC are tangents to the circle. The circle has a radius of 7 cm.



The length of AB = 12 cm. Work out the length of AC.



a) Work out the length of AC.b) Work out the length of AO.

Answers

1. TP is a tangent and OP is the radius of the circle.



2. Work out the size of each angle

marked with a letter.



3. AB and AC are tangents to the circle.

4. AB and AC are tangents to the circle. The circle has a radius of 7 cm.



The length of AB = 12 cm. Work out the length of AC.

AC = 12 cm



AC - 24 CI

a) Work out the length of AC.

b) Work out the length of AO.