Circle theorems: tangents *lesson handout*

Reasons

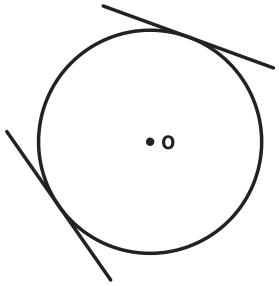
A tangent meets a radius at 90°.

Angles in a triangle add up to 180°.

Pythagoras: $a^2 + b^2 = c^2$, where c is the hypotenuse.

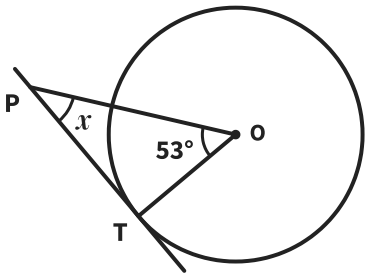
Hook

Draw the radius to the point where each line touches the circle. Measure the angle.



We do

PT is a tangent to the circle, centre O. Find x.



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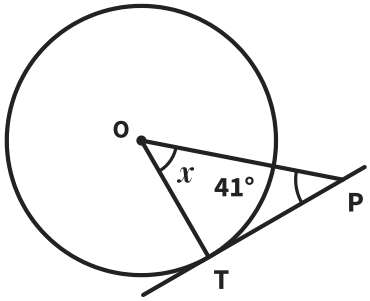

You do

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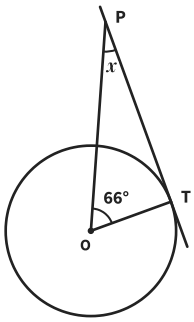
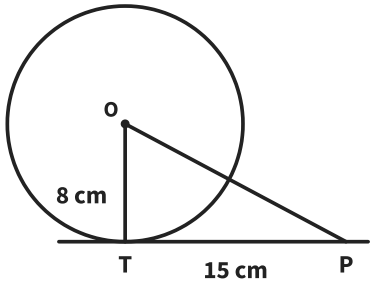


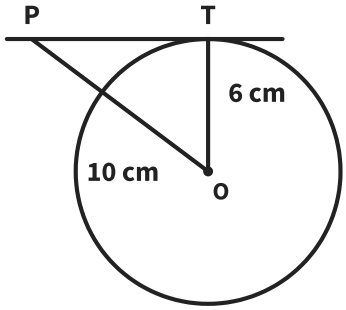
We do

PT is a tangent to the circle, centre O. Find OP.



You do

PT is a tangent to the circle, centre O. Find PT.



You do

PT is a tangent to the circle, centre O. Find PT.

