

S and T are points on the circumference of a circle, centre O . PT is a tangent to the circle and SOP is a straight line.
Angle OPT $=32^{\circ}$
Work out the size of the angle marked $x$. Give reasons for your answer.
(1) angle $O T P=90^{\circ}$ (the angle leteweer radius and tangent $=90^{\circ}$
(2) $180-(90+32)=58^{\circ}$ (anglo ne a triangle odd up
(3) $180^{\circ}-58^{\circ}=122$ (angles on a straight he equal $180^{\circ}$ )
(44180 - $122=58$ (baseangles nan $180^{\text {) }}$


Now have a go yourself ... .


The diagram shows a circle centre $O . A, B$ and $C$ are points on the circumference. $D C O$ is a straight line. $D A$ is a tangent to the circle.

Angle $A D O=36^{\circ}$
(a) Work out the size of angle $A O D$.
(b) Work out the size of angle $A B C$.

Give reasons for your answers.

## Exam Questions


$A, B$ and $C$ are points on the circumference of a circle, centre $O$.
$A C$ is a diameter of the circle.

Write down the size of angle $A B C$. Give a reason from your answer
$D, E$ and $F$ are points on the circumference of a circle, centre 0 .

Angle DOF $=130^{\circ}$

Work out the size of angle DEF. Give a reason for your answer.


## Ready to be marked?



Things to remember ...



## What went well ...



Teacher comment ..

