

Calculating angles with circles

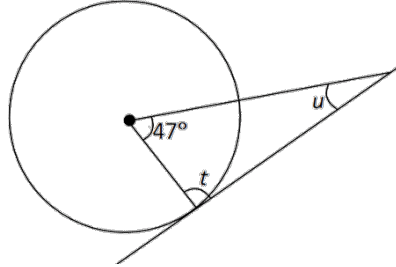
This task is about the angle between a tangent and a radius, and the sum of angles in a triangle and the sum of angles in a quadrilateral.

Complete the following sentences by finding the size of the marked angles.

In each case, justify your answer.

The centre of each circle is marked with a dot.

a)

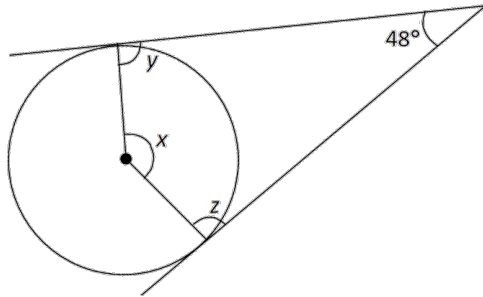


[Not drawn to scale]

Angle $t =$ $^\circ$ because ...

Angle $u =$ $^\circ$ because ...

b)



[Not drawn to scale]

Angles $y + z =$ $^\circ$

Angle $x =$ $^\circ$ because ...