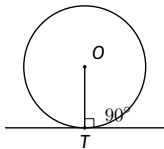


Start Tasks



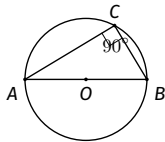
State the tangent-radius and angle-in-a-semicircle theorems.

1.



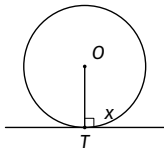
What is the tangent radius angle?

2.



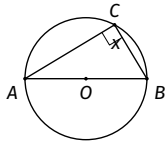
What is the angle in a semicircle?

3.



Find x .

4.



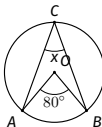
Find x .

Start Tasks



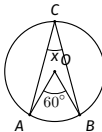
Use the centre/circumference theorem to find a missing angle.

5.



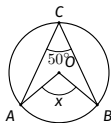
Find x .

7.



Find x .

6.



Find x .

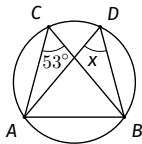
8. The angle at the centre of a circle is 120° . Find the angle at the circumference on the same arc.

Start Tasks



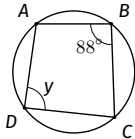
Use the same-segment and cyclic-quadrilateral theorems to find a missing angle.

9.



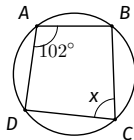
Find x .

11.



Find y .

10.



Find x .

12. Opposite angles in a cyclic quadrilateral are x° and 70° . If they sum to 180° , find x .