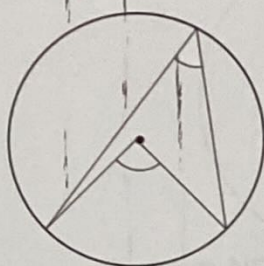
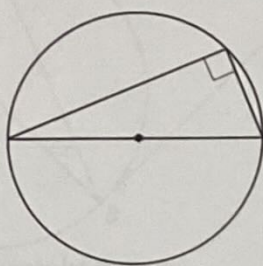


Circle theorems

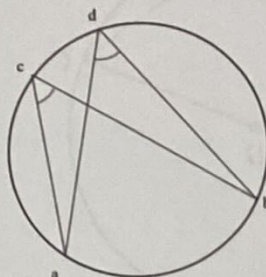
Things to remember:



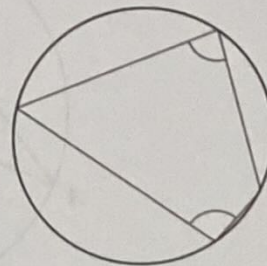
The angle at the centre is twice the angle at the circumference.



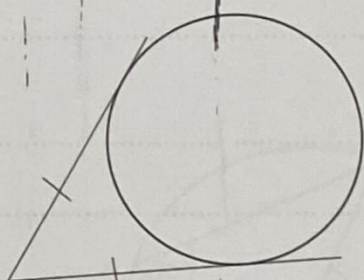
The angle in a semi-circle is 90° .



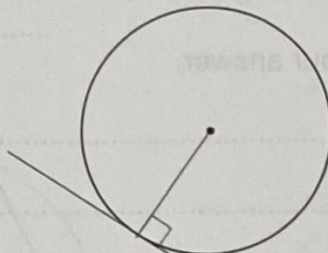
Angles subtended by the same arc are equal.



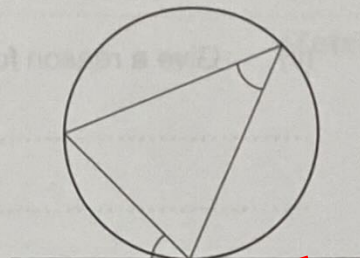
Opposite angles in a cyclic quadrilateral sum to 180° .



Tangents from a point are equal.



A tangent is perpendicular to a radius.



Angles in alternate segments are equal.

Questions:

1.

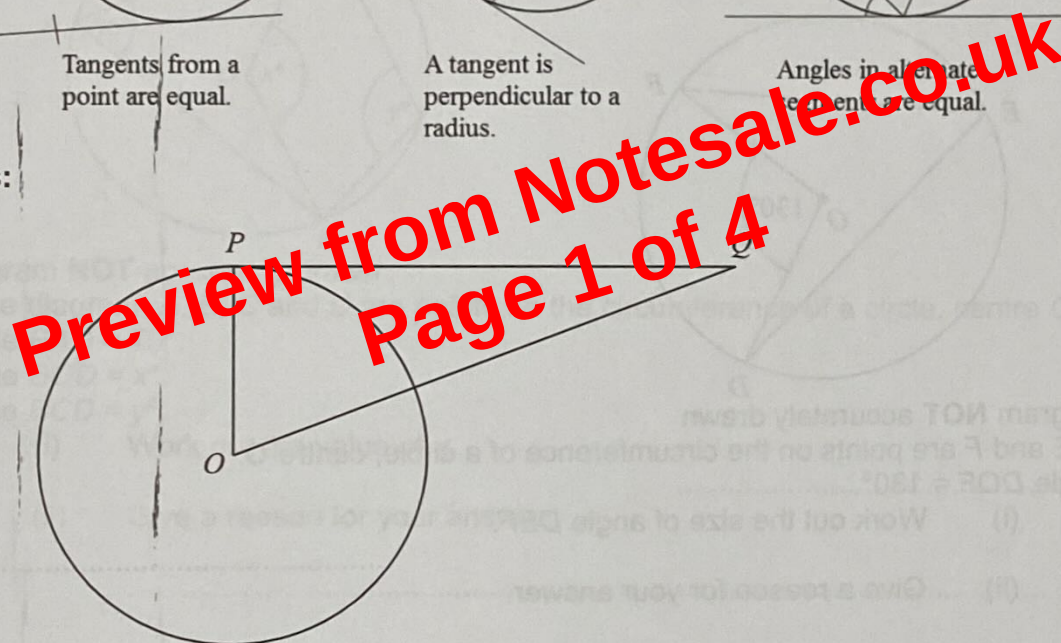


Diagram **NOT** accurately drawn

P is a point on the circumference of the circle, centre O .

PQ is a tangent to the circle.

(i) Write down the size of angle OPQ .

.....^o

(ii) Give a reason for your answer.

.....

.....

(Total 2 marks)