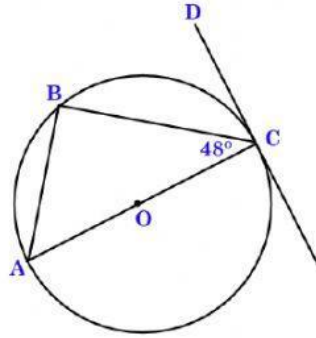


Name: _____ Date: _____

Answer ALL the questions on this worksheet

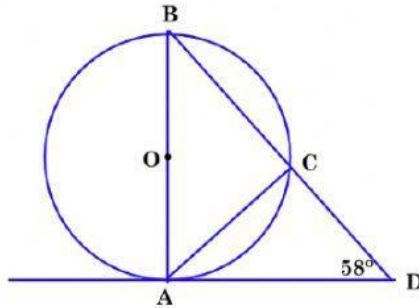
1. In the diagram, O is the centre of the circle ABC and $\angle ACB = 48^\circ$. The line DC is tangent to the circle at C.



Calculate the value of

- (i) $\angle ABC$ $^\circ$
 (ii) $\angle BAC$ $^\circ$
 (iii) $\angle BCD$ $^\circ$

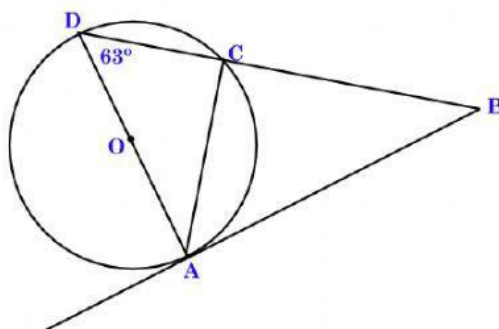
2. AB is a diameter of the circle ABC with centre O. AD is a tangent to the circle at A. $\angle ADC = 58^\circ$.



Calculate

- (i) $\angle BCA$ $^\circ$
 (ii) $\angle ABD$ $^\circ$
 (iii) $\angle CAD$ $^\circ$

3. In the diagram, O is the centre of the circle. AB is tangent to the circle at A and $\angle ABD = 63^\circ$.



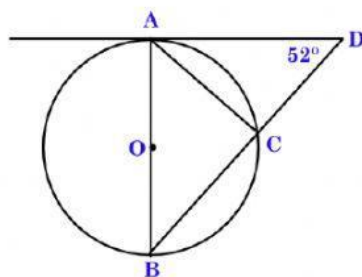
Calculate the value of

(i) $\angle CAD$ $^\circ$

(ii) $\angle CAB$ $^\circ$

(iii) $\angle CBA$ $^\circ$

4. AB is a diameter of the circle ABC with centre O. AD is tangent to the circle at A. $\angle ADC$ is 52°



Calculate

(i) $\angle BCA$ $^\circ$

(ii) $\angle ABD$ $^\circ$

(iii) $\angle CAD$ $^\circ$