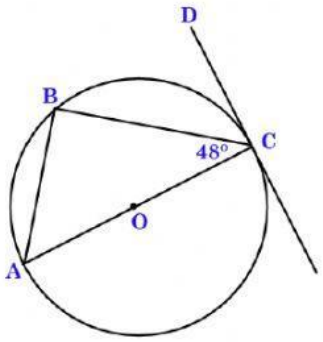
Name: _____ Date: _____

Answer ALL the questions on this worksheet

1. **In the diagram, O is the centre pf the circle ABC and ∠ACB = 48°. The line DC is tangent to the circle at C.**



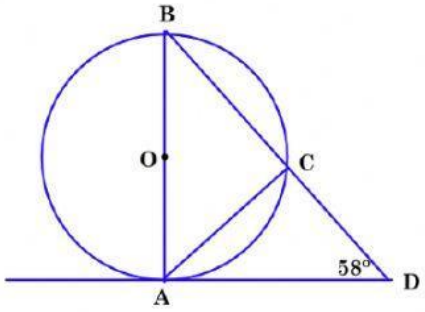
Calculate the value of

(i) ∠ABC ☐ °

(ii) ∠BAC ☐ °

(iii) ∠BCD ☐ °

2. **AB is a diameter of the circle ABC with centre O. AD is a tangent to the circle at A. ∠ADC = 58°.**



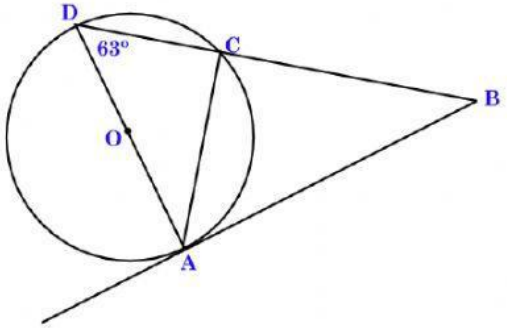
Calculate

(i) ∠ BCA ☐ °

(ii) ∠ ABD ☐ °

(iii) ∠ CAD ☐ °

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



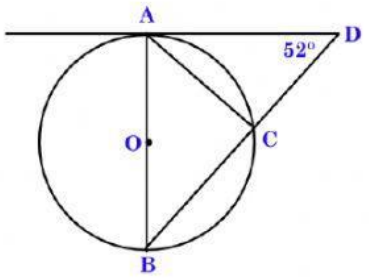
Calculate the value of

(i) $\angle CAD$ ☐ °

(ii) $\angle CAB$ ☐ °

(iii) $\angle CBA$ ☐ °

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



Calculate

(i) $\angle BCA$ ☐ °

(ii) $\angle ABD$ ☐ °

(iii) $\angle CAD$ ☐ °