

Answer: A) 50°

7) A triangle ABC is drawn to circumscribe a circle. If AB = 13 cm, BC = 14 cm and AE = 7 cm, then AC is equal to:

- A) 12 cm B) 15 cm
C) 11 cm D) 16 cm

Answer: B) 15 cm

8) In the given figure, PQ and PR are tangents to the circle with centre O such that $\angle QPR = 70^\circ$, then $\angle OQR$ is equal to:

- A) 25° B) 35°
C) 40° D) 20°

Answer: B) 35°

9) PA and PB are tangents to the circle with centre O touching it at A and B respectively. If $\angle APO = 25^\circ$, then $\angle POB$ is:

- A) 65° B) 155°
C) 130° D) 150°

Answer: A) 65°

10) In the following figure, find $\angle ACB$.

- A) 60° B) 45°
C) 90° D) 30°

Answer: C) 90°

11) In the following figure, PA and PB are two tangents to circle with centre O. DRC is another tangent which touches the circle at the point R. If PA = 10 cm and CP = 7 cm, then find the length of RC.

- A) 1 cm B) 2 cm C) 3 cm D) 4 cm

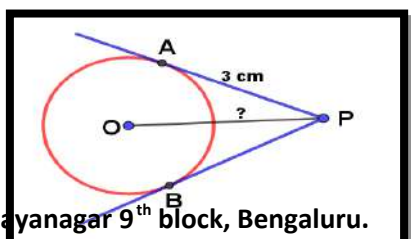
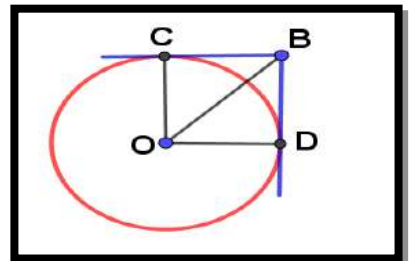
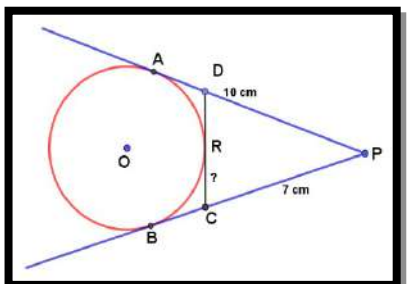
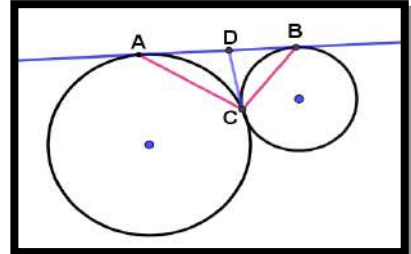
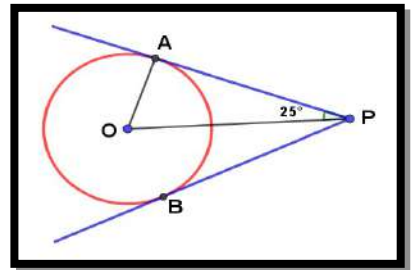
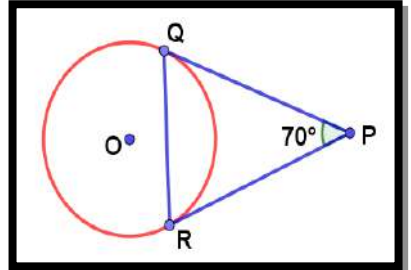
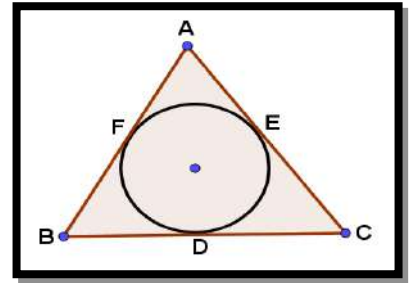
Answer: C) 3 cm

12) Two tangents BC and BD are drawn to a circle with centre O that $\angle CBD = 120^\circ$. Then OB = _____

- A) 2BC B) BC C) 3BC D) $\frac{BC}{2}$

Answer: A) 2BC

13) Two tangents PA and PB are drawn to a circle with centre O such that $\angle APB = 60^\circ$ with AP = 3 cm, then OP is equal to:



A) $\sqrt{3}$ cm

B) $\frac{\sqrt{3}}{2}$ cm

C) 6 cm

D) $2\sqrt{3}$ cm

Answer: D) $2\sqrt{3}$ cm