

Name - _____

Start time - ___ : ___

End time - ___ : ___

Solve the following.

1. ABCD is a cyclic quadrilateral such that AB is a diameter of the circle circumscribing it and $\angle ADC = 140^\circ$, then $\angle BAC$ is equal to:

- (a) 30° (b) 40°
(c) 50° (d) 80

2. If $AB = 12$ cm, $BC = 16$ cm and AB is perpendicular to BC, then the radius of the circle passing through the points A, B and C is:

- (a) 6 cm (b) 8 cm
(c) 10 cm (d) 12 cm

3. AD is the diameter of a circle and AB is a chord. If $AD = 34$ cm, $AB = 30$ cm, the distance of AB from the centre of the circle is

- (a) 4 cm (b) 8 cm
(c) 15 cm (d) 17 cm

4. In the given figure, if AOB is a diameter of the circle and $AC = BC$, then $\angle CAB$ is equal to:

- (a) 30° (b) 45°
(c) 60° (d) 90°

