Geometry - Circles

Grade 11 | Difficulty: Medium

1. Find the equation of a circle with center (3, -4) and radius 5.

2. Determine the length of an arc subtended by a 45° angle in a circle of radius 7 cm.

3. Prove that opposite angles in a cyclic quadrilateral are supplementary.

4. Find the area of a sector in a circle with a radius of 6 cm and a central angle of 90°.

5. Calculate the distance between two points on the circumference given their coordinates.