Circles	
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Work sheet-3

Q1. Fill in the blanks

1.	The angle subtended by an arc at the centre is the angle subtended by it at any
	point on the remaining part of the circle.
2.	The angle subtended in a semicircle is aangle.
3.	Angles in the same segment of a circle are
4.	If the line segment joining two points subtends equal angles at two other points lying on the
	same side of the line containing the line segment, the four points lie on a
5.	The opposite angles of a cyclic quadrilateral are
6.	A cyclic parallelogram is a (rhombus, rectangle, square)
Q2.	Answer each of the following questions.
1.	ABCD is a cyclic quadrilateral whose diagonals AC and BD intersect at the centre of the circle
	passing through the vertices A, B, C and D. What is the particular shape of the quadrilateral?
2.	ABCD is a cyclic parallelogram. If diagonal AC is 13cm long, what is the length of diagonal BD?
3.	ABCD is a cyclic parallelogram. Find ∠ABC.
4.	ABCD is a cyclic quadrilateral. If ∠ABC=70°, then find ∠ADC.
	Prove that equal chords of a circle are equidistant from the centre of the circle.
	If O is the centre of a circle and A is any point on the minor arc BC of the circle, prove that
	$\angle BAC - \angle OBC = 90^{\circ}$.
	Exercise 10.5
