



# MATHS

## BOOKS - UNITED BOOK HOUSE

### Theorems related to Cyclic quadrilateral

#### Exercise

1. Multiple Choice Questions (MCQ) PQRS is a cyclic quadrilateral and PQ is a diameter of the

circle. If  $\angle PSR = 130^\circ$  then  $\angle QPR =$

A.  $30^\circ$

B.  $40^\circ$

C.  $50^\circ$

D.  $60^\circ$ .

**Answer:**



**Watch Video Solution**

2. ABCD is a cyclic quadrilateral and AD is a diameter. If  $\angle DAC = 55^\circ$  then value of  $\angle ABC$  is \_\_\_\_\_

A.  $88^\circ$

B.  $44^\circ$

C.  $22^\circ$

D.  $46^\circ$ .

**Answer:**



**Watch Video Solution**

3. In cyclic quadrilateral  $XYZT$ , the sides  $XY$  and  $XT$  are produced upto  $P$  and  $Q$ . If  $\angle ZYP = 130^\circ$  then  $\angle ZTQ =$

A.  $40^\circ$

B.  $90^\circ$

C.  $65^\circ$

D.  $50^\circ$ .

**Answer:**



**Watch Video Solution**

4. ABCD is a cyclic quadrilateral whose  $AB \parallel DC$  and AB is the diameter of the circle with centre at O. If  $\angle CAB = 35^\circ$ , then  $\angle DOC =$

A.  $35^\circ$

B.  $40^\circ$

C.  $45^\circ$

D.  $50^\circ$ .

**Answer:**



**Watch Video Solution**

5.  $PQ$  is the diameter of a circle with centre  $O$ .  
 $P$  and  $Q$  both produced to meet at  $T$  outside  
the circle. If  $\angle ROS = 42^\circ$  then  $\angle RTS =$

A.  $15^\circ$

B.  $20^\circ$

C.  $52^\circ$

D.  $69^\circ$ .

**Answer:**



**Watch Video Solution**

6. ABCD is a cyclic quadrilateral. AB and DC are produced to meet at P. If  $\angle ADC = 70^\circ$  and  $\angle DAB = 60^\circ$ , then  $\angle PBC + \angle PCB$  is equals\_\_\_

A. 17 : 8

B. 8 : 17

C. 8 : 9

D. 9 : 8.

**Answer:**



**Watch Video Solution**

7. In a cyclic quadrilateral  $ABCD$ ,  $AB$  is a diameter. If  $\angle ACD = 50^\circ$ , then  $\angle BAD =$

A.  $40^\circ$

B.  $50^\circ$

C.  $60^\circ$

D.  $45^\circ$

**Answer:**



**Watch Video Solution**



8. ABCD is a cyclic quadrilateral. If the ratio of three consecutive angles of this quadrilateral be  $5 : 6 : 7$ , the the ratio of the 1 st and 4th angle is

A.  $5 : 8$

B.  $6 : 5$

C.  $5 : 6$

D.  $8 : 5$ .

**Answer:**



Watch Video Solution

9. ABCD is a cyclic quadrilateral whose  $AB \parallel DC$  and AB is the diameter of the circle with centre at O. If  $\angle CAB = 35^\circ$ , then  $\angle DOC =$

A.  $30^\circ$

B.  $40^\circ$

C.  $20^\circ$

D.  $25^\circ$ .

**Answer:**



Watch Video Solution

10. Two diagonals  $AC$  and  $BD$  of a cyclic quadrilateral  $ABCD$  intersect at  $P$ . If  $\angle APB = 68^\circ$  and  $\angle CBD = 24^\circ$ , then  $\angle ADB =$

A.  $34^\circ$

B.  $43^\circ$

C.  $44^\circ$

D.  $45^\circ$ .

**Answer:**



**Watch Video Solution**