



### Exercise 13A

Q1

**Answer :**

- 1) Angle formed at the vertex of our elbow with the upper arm and the lower arm as the two rays. This angle will vary as per the position of our arm.
- 2) Angle formed between the two hands of the clock that are hinged at a point.
- 3) Angle formed between the two hands of a windmill. They are also hinged at a point, which is called the vertex of that angle.

Q2

**Answer :**

The vertex is B.

Arms of  $\angle ABC$  are rays  $\overrightarrow{BA}$  and  $\overrightarrow{BC}$ .

Q3

**Answer :**

- (i) Here, three angles are formed. They are  $\angle ABC$ ,  $\angle ACB$  and  $\angle BAC$ .
- (ii) Here, four angles are formed. They are  $\angle ABC$ ,  $\angle BCD$ ,  $\angle CDA$  and  $\angle DAB$ .
- (iii) Here, eight angles are formed. They are  $\angle ABC$ ,  $\angle BCD$ ,  $\angle CDA$ ,  $\angle DAB$ ,  $\angle ABD$ ,  $\angle ADB$ ,  $\angle CDB$ ,  $\angle CBD$ .

Q4

**Answer :**

- (i) Q and S are in the interior of  $\angle AOB$ .
- (ii) P and R are in the exterior of  $\angle AOB$ .
- (iii) A, O, B, N and T lie on the angle  $\angle AOB$ .

Q5

**Answer :**

- (i) False  
Point C is on the angle  $\angle AOC$ .
- (ii) True  
Point C lies in the interior of  $\angle AOD$ .
- (iii) False  
Point D lies in the exterior of  $\angle AOC$ .
- (iv) True  
Point B lies in the exterior of  $\angle AOD$ .
- (v) False  
Point C lies in the interior of  $\angle AOB$ .

Q6

**Answer :**

- (i)  $\angle EPB$
- (ii)  $\angle PQC$
- (iii)  $\angle FQD$

\*\*\*\*\* END \*\*\*\*\*

