Angles Ex 11.2 Q7

Answer:

In one turn, the wheel of a bicycle covers 360°.

If we express 360° in right angles, we get:

$\frac{360°}{90°}$ = 4 right angles

Thus, in four and a half turns, the wheel will turn by (4 × 4.5) = 18 right angles

Angles Ex 11.2 Q8

Answer:

The time interval between 8:00 O'clock and 10:30 O'clock is 2.5 hours, i.e., two and a half hours.

In 1 hour, the minute hand turns by a complete angle, i.e., 360° or 360°/90° = 4 right angles.

Thus, in 2.5 hours, the minute hand will turn by 2.5 × 4 = 10 right angles.

Angles Ex 11.2 Q9

Answer:

In a bicycle, the central angle measures 360° and it consists of 48 spokes.

∴ Angle between any two adjacent spokes = $\frac{360}{48}$ = 7.5°

Angles Ex 11.2 Q10

Answer:

An acute angle measures between 0° and 90°; an obtuse angle measures between 90° and 180°; a straight angle measures 180°; a right angle measures 90°; a zero angle measures 0° and a complete angle measures 360°.
(i) 118° is an obtuse angle.
(ii) 29° is an acute angle.
(iii) 145° is an obtuse angle.
(iv) 165° is an obtuse angle.
(v) 0° is a zero angle.
(vi) 75° is an acute angle.
(vii) 180° is a straight angle.
(viii) 89.5° is an acute angle.
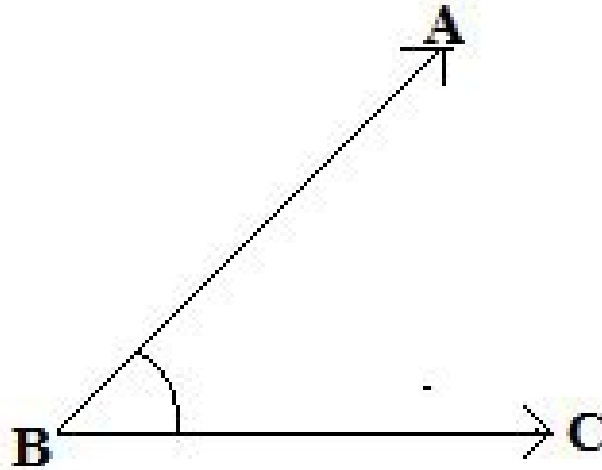(ix) 30° is an acute angle.
(x) 90° is a right angle.
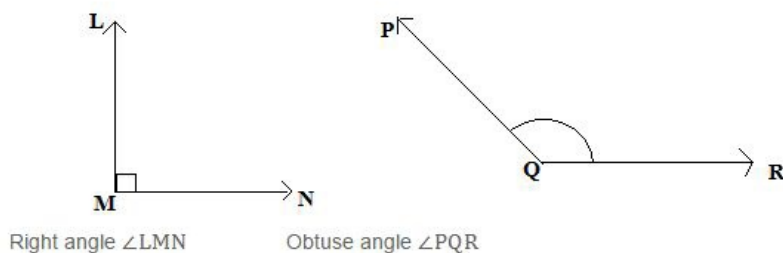(xi) 179° is an obtuse angle.
(xii) 360° is a complete angle.
(xiii) $90\frac{1}{2}$° is an obtuse angle.

Angles Ex 11.2 Q11

Answer :

Acute angle ∠ABC

Right angle ∠LMN   Obtuse angle ∠PQR

Angles Ex 11.2 Q12

Answer :

(i) East and west directions form an angle of 180°, which is a straight angle.

(ii) East and north directions form an angle of 90°, which is a right angle.

(iii) North and north-east directions form an angle of 45°, which is an acute angle.

(iv) North and south-east directions form an angle of 135°, which is an obtuse angle.

Angles Ex 11.2 Q13

Answer :

(i) Acute angle, as it measures between 0° and 90°.

(ii) Obtuse angle, as it measures between 90° and 180°.

(iii) Straight angle, as it is equal to 180°.

(iv) Right angle, as it is equal to 90°.

(v) Complete angle, as it is equal to 360°.

********** END *********