

Chapter – 1

Geometry

Ex 1.1

Question 1.

Write the measures of the complementary angles of the following angles.

i) 45°

ii) 30°

iii) 72°

iv) 88°

v) 38°

Answer:

i) 45°

$$= 90^\circ - 45^\circ$$

$$= 45^\circ$$

ii) 30°

$$= 90^\circ - 30^\circ$$

$$= 60^\circ$$

(iii) 72°

$$= 90^\circ - 72^\circ$$

$$= 18^\circ$$

iv) 88°

$$= 90^\circ - 88^\circ$$

$$= 2^\circ$$

v) 38°

$$= 90^\circ - 38^\circ$$

$$= 52^\circ$$

Question 2.

Write the measures of the supplementary angles of the following angles

i) 80°

ii) 95°

- iii) 110°
- iv) 135°
- v) 15°

Answer:

(i) 80°
 $= 180^\circ - 80^\circ$
 $= 100^\circ$

(ii) 95°
 $= 180^\circ - 95^\circ$
 $= 85^\circ$

(iii) 110°
 $= 180^\circ - 110^\circ$
 $= 70^\circ$

(iv) 135°
 $= 180^\circ - 135^\circ$
 $= 45^\circ$

(v) 150°
 $= 180^\circ - 150^\circ$
 $= 30^\circ$

InText Questions

Try These (Text Book Page No.2)

Question 1.

Tick (✓) the correct alternative

i)



The shortest distance between the points C and D is shown by the segment CD
the curve CD

Answer:
the segment CD

ii)



line PQ and line QP represent different lines / the same line

Answer:
the same line

iii)



point C lies on the ray AB / ray BD

Answer:
ray AB

iv)



Segment MN has infinite / finite length

Answer:
finite length

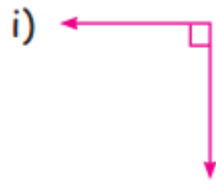
v)



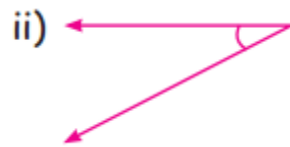
Ray RT is a part / is not a part of the line TR

Answer:
a part

Question 2.
Write the type of the angle



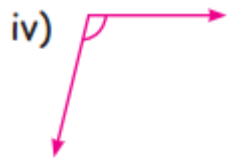
Answer:
Right angle



Answer:
Acute angle



Answer:
Straight angle



Answer:
Obtuse angle