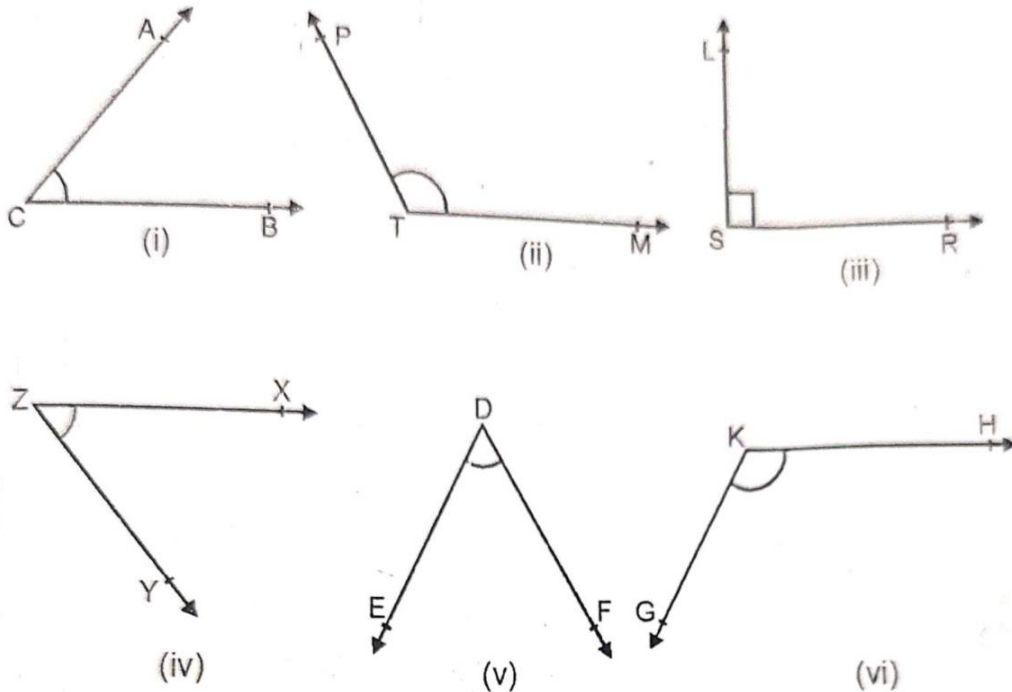


EX - 15 (A)

Question 1:

Name each of the following angles. Also name the vertex and them arms in each case :



Answer :

(i) $\angle ABC$, vertex is C, arms are CA and CB.

(ii) $\angle PTM$, vertex is T, arms are TP and TM.

(iii) $\angle LSR$, vertex is S, arms are SL and SR.

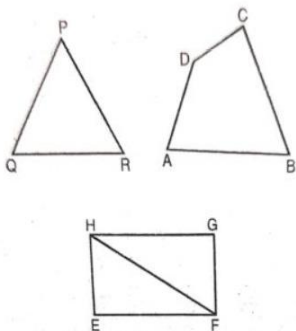
(iv) $\angle XZY$, vertex is Z, arms are ZX and ZY.

(v) $\angle EDF$, vertex is D, arms are DE and DF.

(vi) $\angle HKG$, vertex is K, arms are KH and KG.

Question 2:

How many angles are formed in each of the figure given below ? Name them.



Answer :

(i) In Figure there are Three angles :

$\angle PQR, \angle QRP, \angle QPR$

(ii) In Figure there are Four angles :

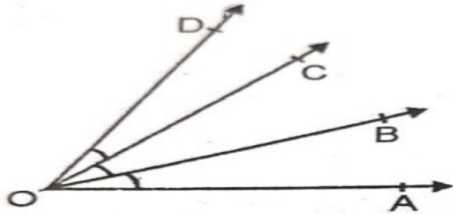
$\angle ABC, \angle BCD, \angle CDA, \angle DAB$

(iii) In Figure there are Eight angles :

$\angle HEF, \angle EFH, \angle EHF, \angle EHG, \angle EFG, \angle HFG, \angle FGH, \angle HGF$

Question 3:

Name all possible angles in the figure given below :

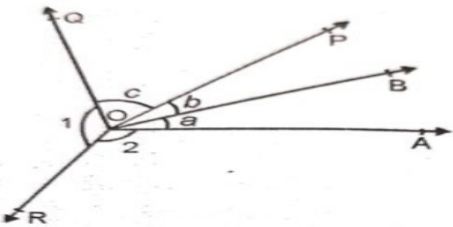


Answer :

$\angle AOB, \angle AOC, \angle AOD, \angle BOC, \angle BOD, \angle COD.$

Question 4:

Name the angle shown, using capital letters :



Answer :

$\angle a = \angle AOB,$

$\angle b = \angle BOP,$

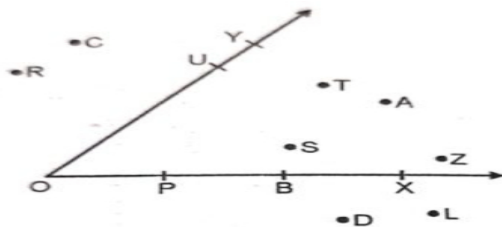
$\angle c = \angle POQ,$

$\angle 1 = \angle QOR,$

$\angle 2 = \angle ROA$

Question 5:

In the adjoining figure ; name the points :



(i) On the angle ;

(ii) In the interior of the angle ;

(iii) In the exterior of the angle.

Answer :

(i) Y, U, P, B, X, O

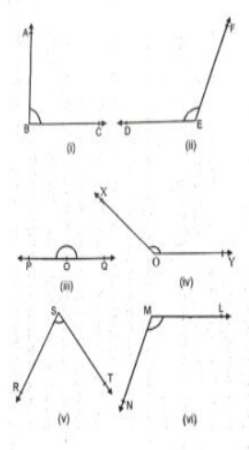
(ii) A, S, T, Z

(iii) C, R, D, L.

EX – 15 (B)

Question 1:

Measure each of the following angles. Write its measure. Write whether it is acute, obtuse, right angle, a straight angle or a reflex angle.



Answer :

(i) 90° , right angle

(ii) 115° , obtuse angle

(iii) 180° , straight angle

(iv) 145° , obtuse angle

(v) 78° , acute angle

(vi) 120° , obtuse angle

Question 2:

Classify the angles whose magnitude are given below :

(i) 93°

(ii) 180°

(iii) 86°

(iv) 125°

(v) 0°

(vi) 90.5°

(vii) 89.5°

(viii) 90°

(ix) 360°

(x) 182°

(xi) 3°

(xii) 25°

Answer :

- (i) obtuse angle
- (ii) straight angle
- (iii) acute angle
- (iv) obtuse angle
- (v) zero angle
- (vi) obtuse angle
- (vii) acute angle
- (viii) right angle
- (ix) complete angle
- (x) reflex angle
- (xi) acute angle
- (xii) acute angle

Question 3:

How many degrees are there in :

- (i) one right angle
- (ii) two right angles
- (iii) three right angles
- (iv) $\frac{3}{5}$ right angles
- (v) $\frac{3}{2}$ right angles
- (vi) four right angles.

Answer :

- (i) $1 \times 90^\circ = 90^\circ$
- (ii) $2 \times 90^\circ = 180^\circ$
- (iii) $3 \times 90^\circ = 270^\circ$
- (iv) $\frac{3}{5} \times 90^\circ = 54^\circ$
- (v) $\frac{3}{2} \times 90^\circ = 135^\circ$
- (vi) $4 \times 90^\circ = 360^\circ$