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Class: VII
Subject: Math's
Topic: Lines and angles
No. of Questions: 20

Q1 In fug 5.4, are the angles 1 and 2 of the letter N forming a pair of adjacent angles? Give reasons.

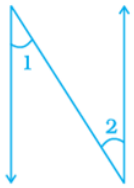


Fig. 5.4

Q2. In fig. 5.6 AB‖EF, ED‖CD and ∠APE is 39°. Find ∠CQF.

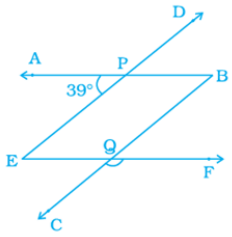
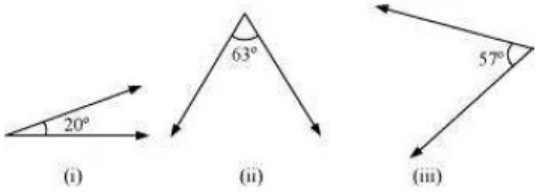


Fig. 5.6

Q3 In fig. 5.7, CD intersects the line AB at F, ∠CFB = 50° and ∠EFA = ∠AFD. Find the measure of ∠EFC.

Q4. Find the complement of each of the following angles:



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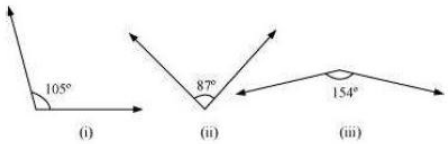
Q5. Find the supplement of each of the following angles:



Q6. Find the angle which is equal to its supplement

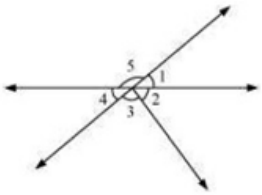
Q7. Can two angles be supplementary if both of them are:

(i) Acute?
(ii) Obtuse?
(iii) Right?

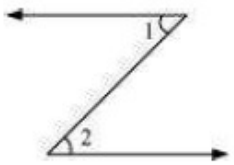
Q8. An angle is greater than 45^o. Is its complementary angle greater than 45^o or equal to 45^o?

Q9. Indicate which pairs of angles are:

(i) Vertically opposite anlges
(ii) Linear pairs.



Q10. In the following figure, is $\angle 1$ adjacent to $\angle 2$? Give reason.



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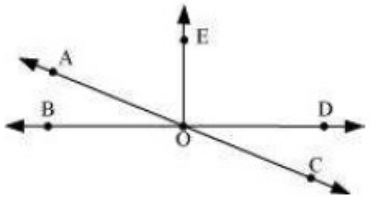
Q11. Fill in the blank:

(i) If two angles are complementary, then the sum of their measures is ----------.
(ii) If two angles are supplementary, then the sum of their measure is ----------.
(iii) Two angles forming a linear pair are ----------.
(iv) If two adjacent angles are supplementary, they form a --------.
(v) If two lines intersect at a point, then the vertically opposite angles are always -------.
(vi) If two lines intersect at a point, and if one pair of vertically opposite angles are acute angles, then the other of vertically opposite angles are ------.

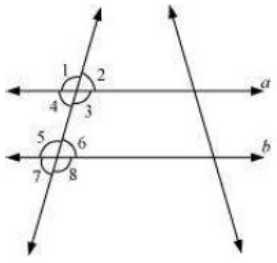
Q12. In the adjoining figure, name the following pairs of angles.



(i) Obtuse vertically opposite angles
(ii) Adjacent complementary angles
(iii) Equal Supplementary angles
(iv) Unequal supplementary angles
(v) Adjacent angles that do not form a linear pair

Q13. State the property that is used in each of the following statements?

(i) If a||b, then $\angle 1 = \angle 5$
(ii) If $\angle 4 = \angle 6$, then a||b
(iii) If $\angle 4 + \angle 5 = 180^{o}$, then a||b



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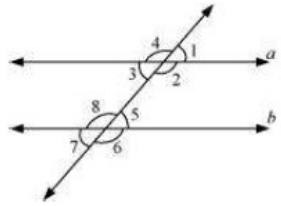
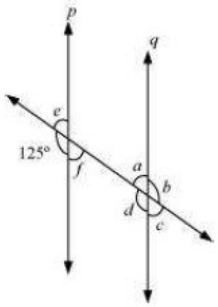
Q14. In the adjoining figure, identify

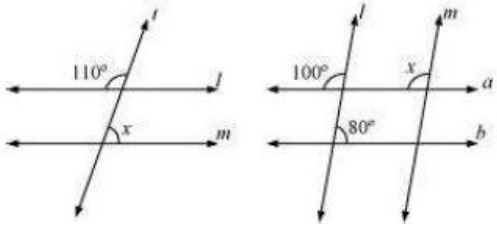
(i) The pairs of corresponding angles
(ii) The pairs of alternate interior angles
(iii) The pairs of interior angles on the same side of the transversal
(iv) The vertically opposite angles



Q15. In the adjoining figure, p ∥ q. Find the unknown angles.



Q16. Find the value of x in each of the following figures if l ∥ m.



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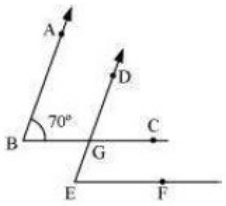
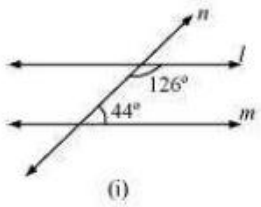
Q17. In the given figure, the arms of two angles are parallel.

If $\angle ABC = 70^o$, then find

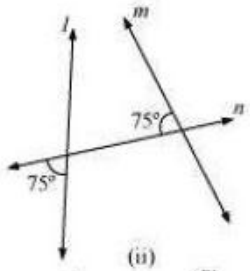
(i) $\angle DGC$
(ii) $\angle DEF$



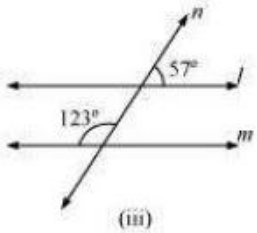
Q18. In the given figures below, decide whether **l is** parallel to m.



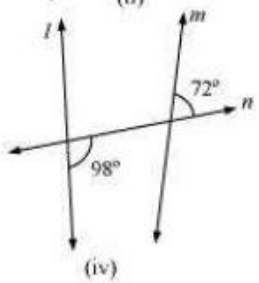
(i)



(ii)



(iii)



(iv)

Q19. If a ray stands on a line, then the sum of two adjacent angles so formed is ---------
($0^o/90^o/180^o/360^o$)

Q20. Two lines in a plane can be_____(only intersecting/only parallel/both intersecting parallel) lines.

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