



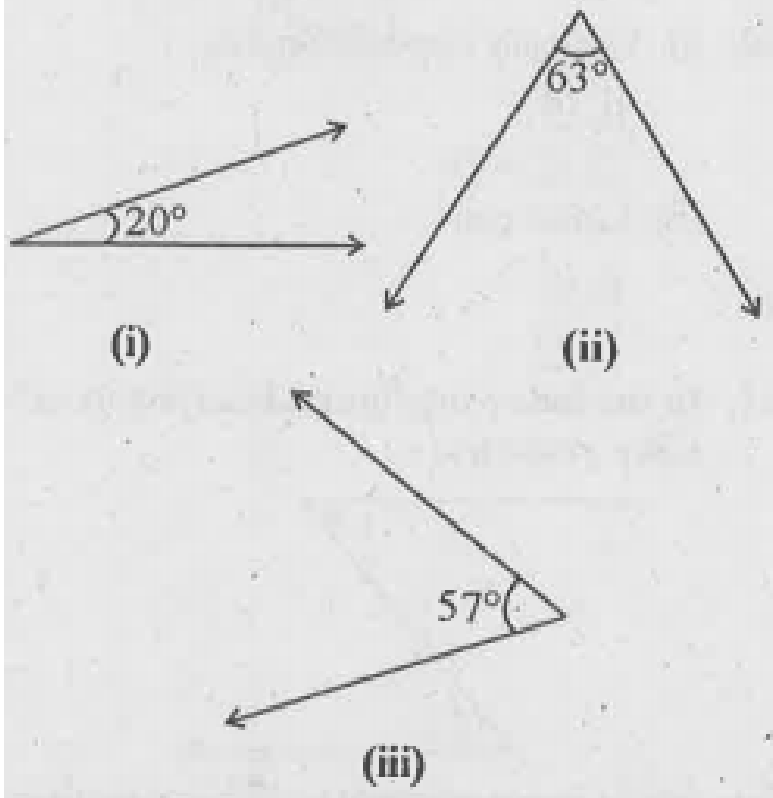
MATHS

BOOKS - SUBHASH PUBLICATION

LINES AND ANGLES

Example

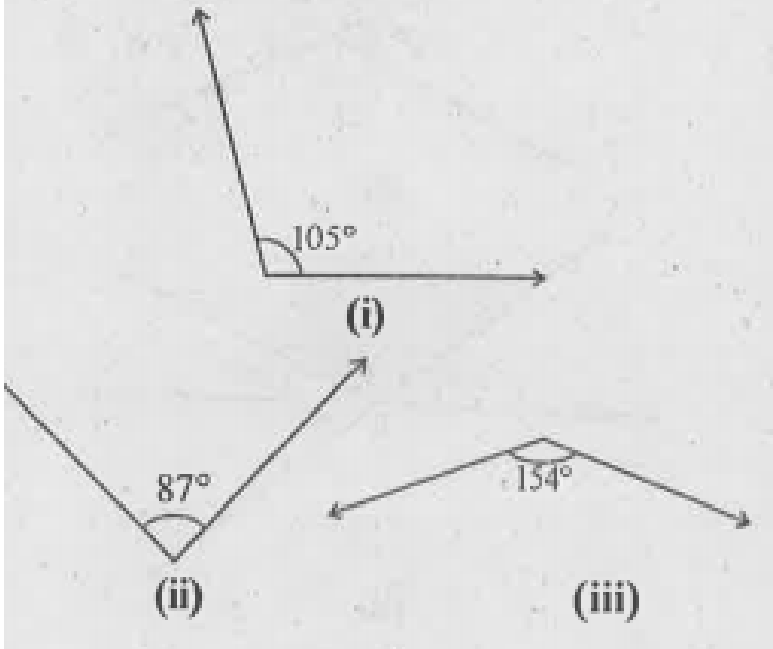
1. Find the complement of each of the following angles.



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

Following angles:



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3. Identity which of the pairs of angles are complementary and which are supplementary :

$65^\circ, 115^\circ$



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4. Identity which of the pairs of angles are complementary and which are supplementary :

$63^\circ, 27^\circ$



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5. Identity which of the pairs of angles are complementary and which are supplementary :

$112^\circ, 68^\circ$



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6. Identity which of the pairs of angles are complementary and which are supplementary :

$130^\circ, 50^\circ$



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7. Identity which of the pairs of angles are complementary and which are supplementary :

$45^\circ, 45^\circ$



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8. Identify which of the pairs of angles are complementary and which are supplementary :

$80^\circ, 10^\circ$



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9. Find the angle which is equal to its complement.

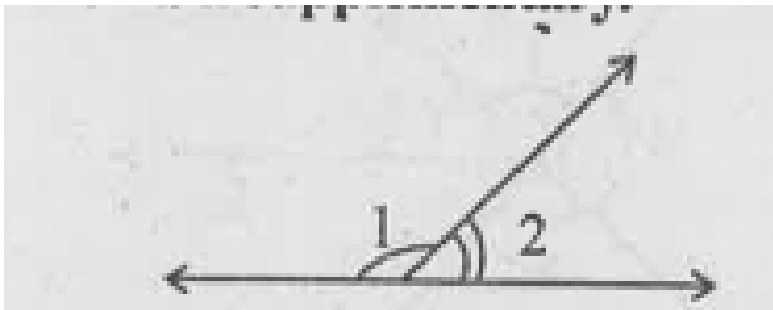


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10. Find the angle which is equal to its supplement.

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11. In the given figure, $\angle 1$ and $\angle 2$ are supplementary angles. If $\angle 1$ is decreased, what changes should take place in $\angle 2$ so that both the angles still remain supplementary.





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12. Can two angles be supplementary if both of them are: acute?



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13. Can two angles be supplementary if both of them are: obtuse?



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14. Can two angles be supplementary if both of them are: right?



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15. An angle is greater than 45° . Is its complementary angle greater than 45° or equal to 45° or less than 45° ?



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16. In the adjoining figure: Is $\angle 1$ adjacent to $\angle 2$.



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17. In the adjoining figure: Is $\angle AOC$ adjacent to $\angle AOE$.



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18. In the adjoining figure: Is $\angle AOC$ adjacent to $\angle AOE$.



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19. In the adjoining figure: Are $\angle BOD$ and $\angle DOA$ supplementary?



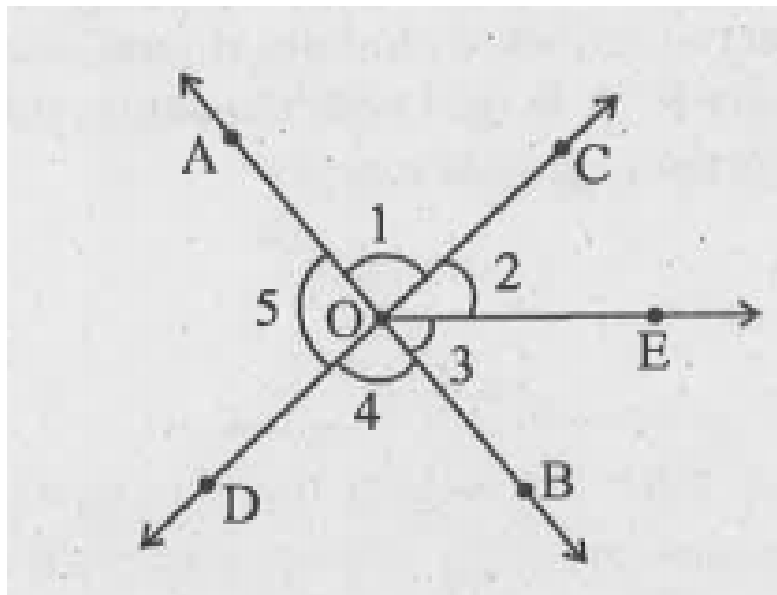
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20. In the adjoining figure: Is $\angle 1$ vertically opposite to $\angle 4$?



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21. In the adjoining figure: What is vertically opposite angle of $\angle 5$



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22. Indicate which pairs of angles are :
Vertically opposite angles.



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23. Indicate which pairs of angles are :
Vertically opposite angles.



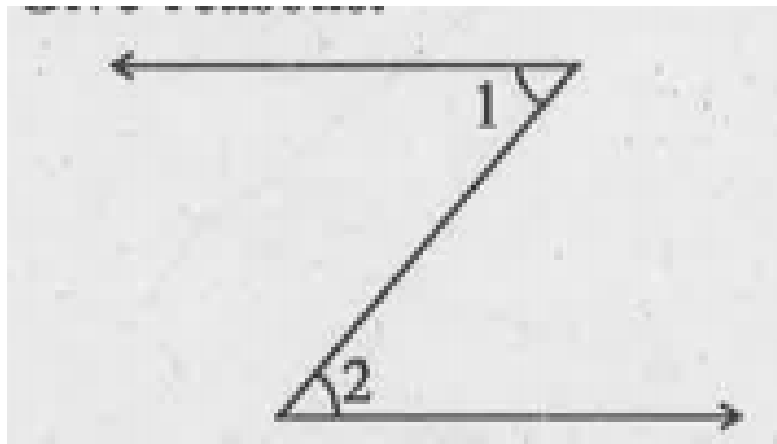
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24. Indicate which pairs of angles are : Linear
pairs.



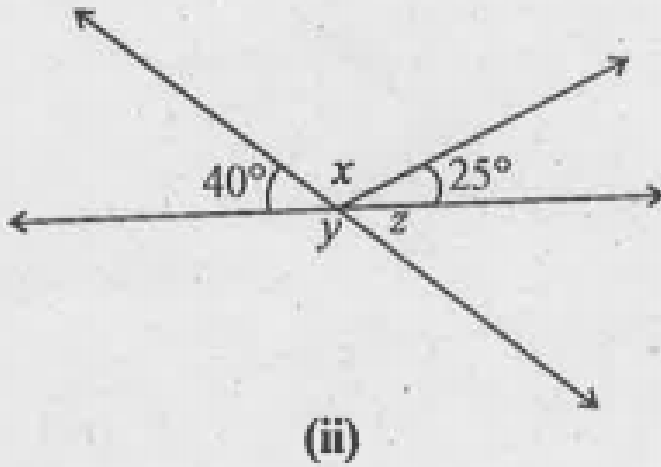
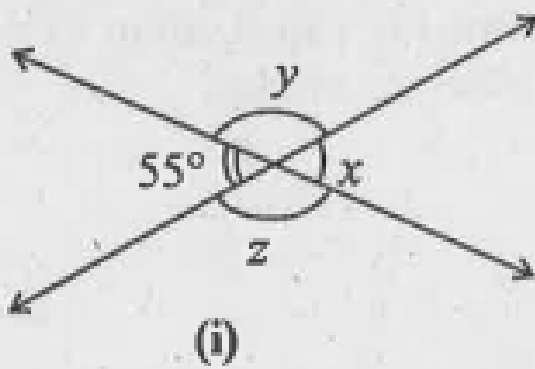
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25. In the following figure, is adjacent to? Give reasons.



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26. Find the values of the angles x , y and z each of the following:



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27. Fill in the blanks: If two angles are complementary, then the sum of their measures is _____.



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28. Fill in the blanks: If two angles are supplementary, then the sum of their measures is _____.



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29. Fill in the blanks: If two lines intersect at a point, then the vertically opposite angles are always _____.



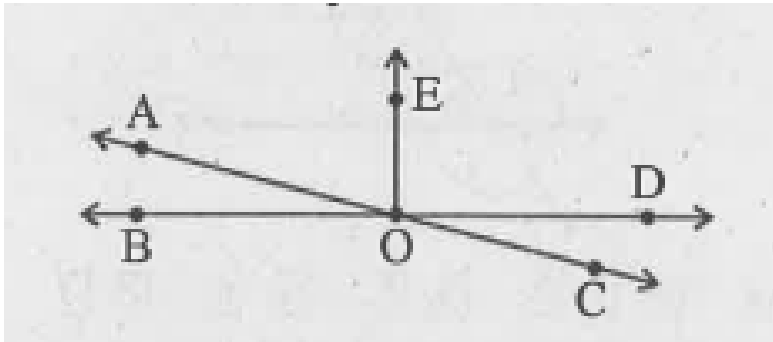
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30. Fill in the blanks: If two lines intersect at a point, and if one pair of vertically opposite angles are acute angles, then the other pair of vertically opposite angles are _____.



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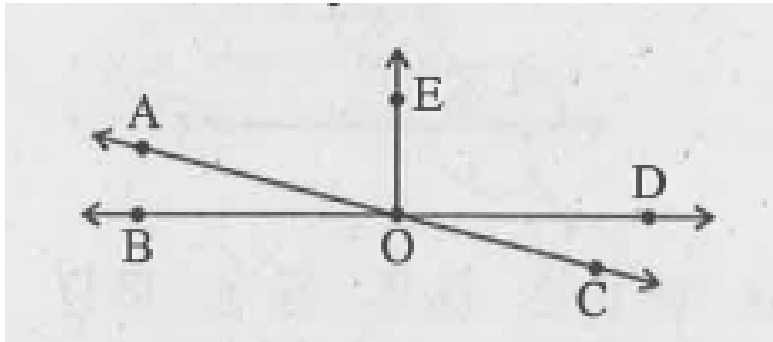
31. In the adjoining figure, name the following pairs of angles: Obtuse vertically opposite angles.



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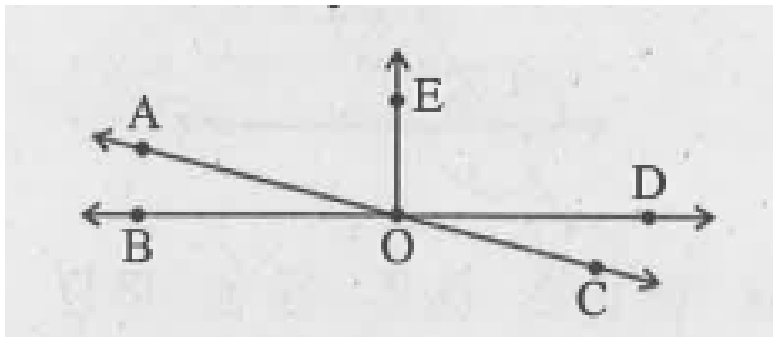
32. In the adjoining figure, name the following pairs of angles: Adjacent complementary

angles.



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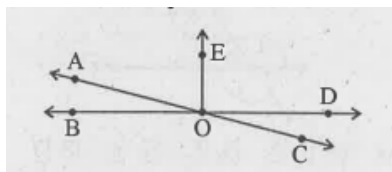
33. In the adjoining figure, name the following pairs of angles: Equal supplementary angles.





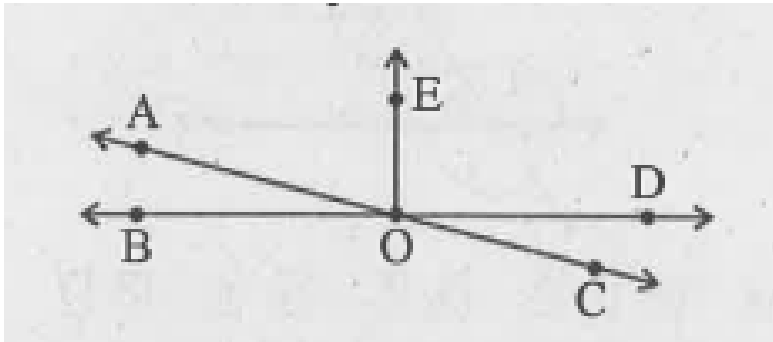
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34. In the adjoining figure, name the following pairs of angles: Unequal supplementary angles.



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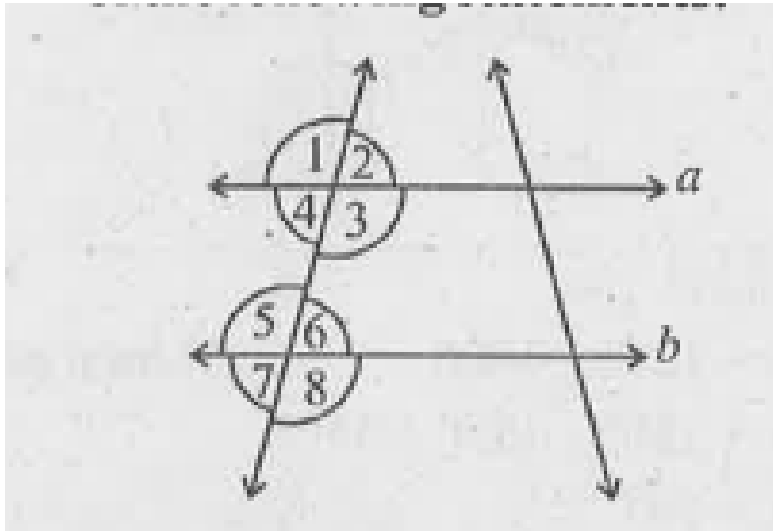
35. In the adjoining figure, name the following pairs of angles: Adjacent angles that do not form a linear pair.



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36. State the property that is used in each of the following statements:

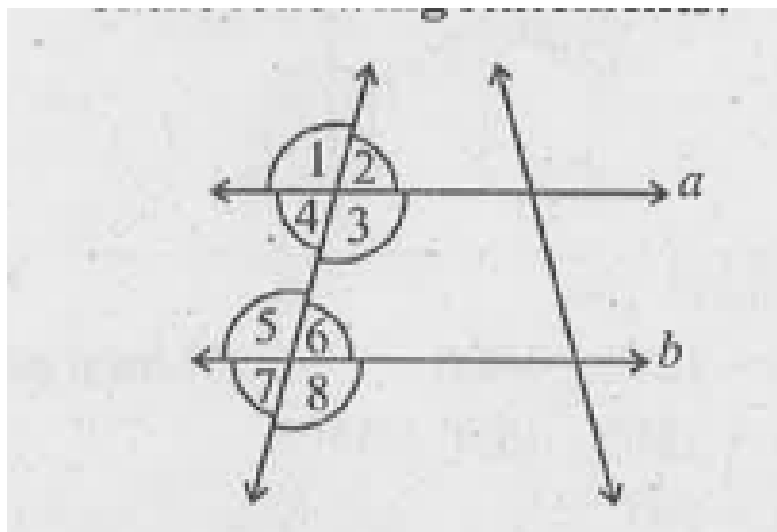
If $a \parallel b$, $\angle 1 = \angle 5$



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37. State the property that is used in each of the following statements:

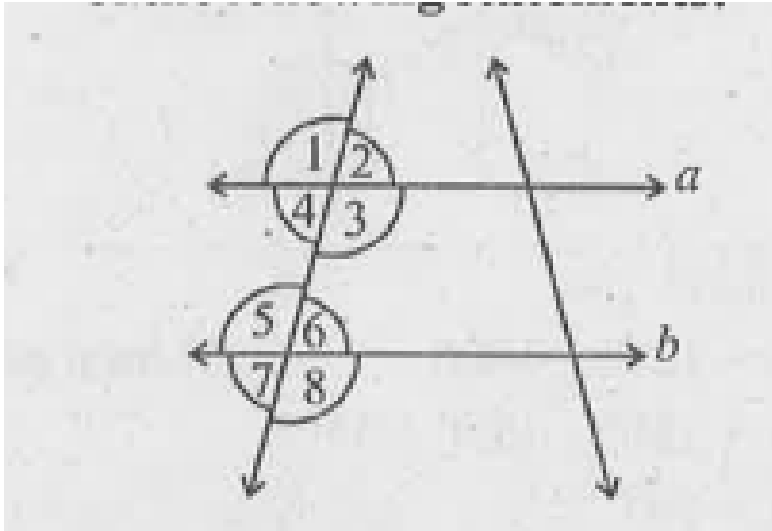
If $\angle 4 = \angle 6$, then $a \parallel b$



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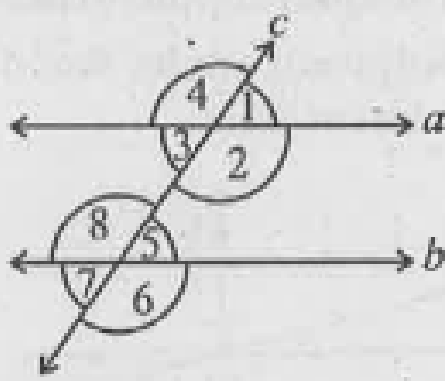
38. State the property that is used in each of the following statements: $\angle 4 + \angle 5 = 180^\circ$,

then $a \parallel b$



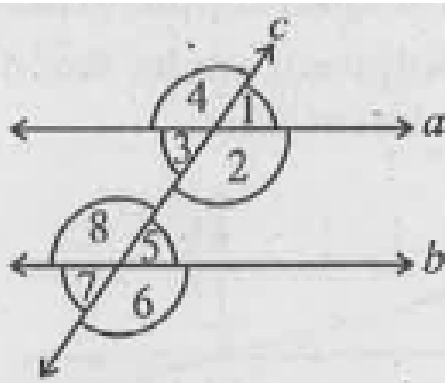
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39. In the adjoining figure, identify: The pairs of corresponding angles.



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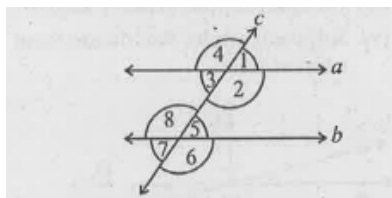
40. In the adjoining figure, identify: the pairs of alternate interior angles.





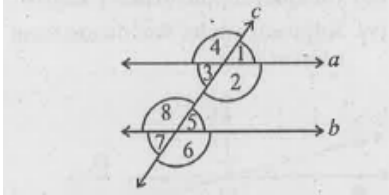
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41. In the adjoining figure, identify: the pairs of interior angles on the same side of the transversal.



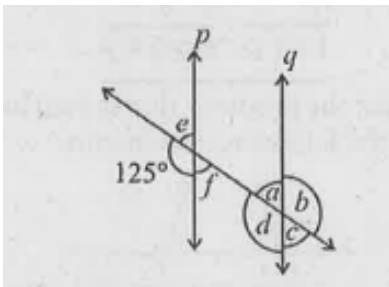
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42. In the adjoining figure, identify: the vertically opposite angles.



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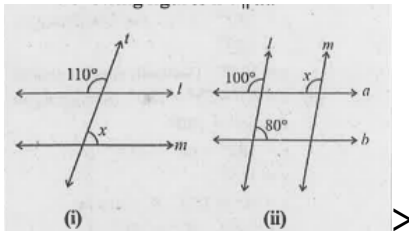
43. In the adjoining figure, $p \parallel q$. Find the unknown angles.





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44. Find the value of x in each of the following figures if $l \parallel m$.



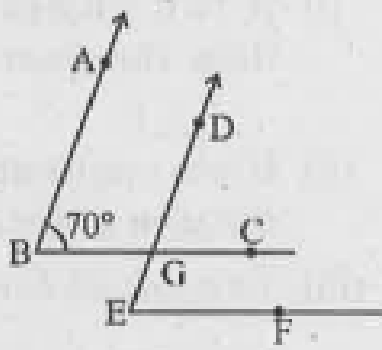
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45. In the give figure, the arms of two angles are parallel.

parallel.

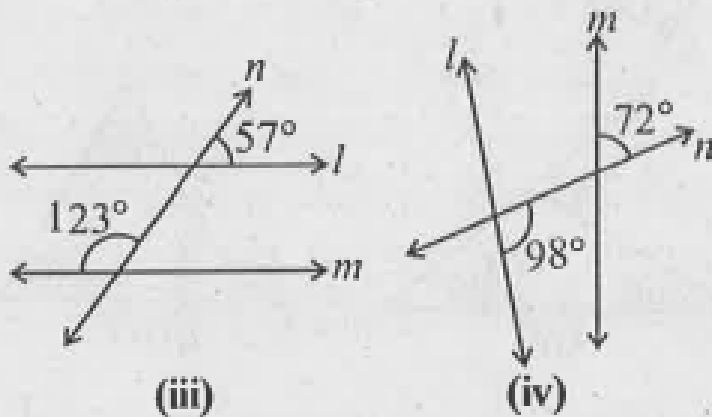
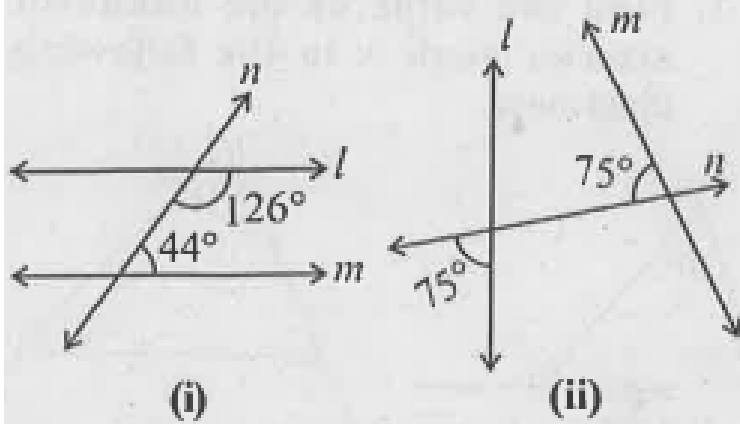
If $\angle ABC = 70^\circ$,
then find.

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



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



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