MATHS

BOOKS - PSEB

Line and Angles

Example

1. Can two acute angles be complement to each other?

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2. Can two obtuse angles be complement to each other?

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3. Can two right angles be complement to each other?

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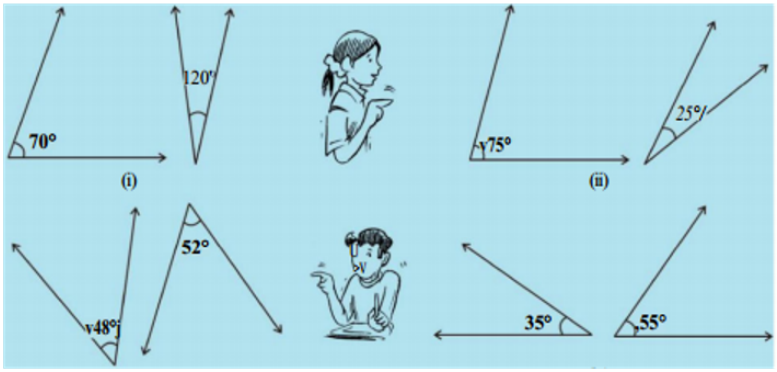
4. Which pairs of following angles are complementary?



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5. What is the measure of the complement of each of the following angles?

45°

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6. What is the measure of the complement of each of the following angles?

65°

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7. What is the measure of the complement of each of the following angles?

41°

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8. What is the measure of the complement of each of the following angles?

54°

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9. The difference in the measures of two complementary angles is 12°. Find the measures of the angles.

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10. Can two obtuse angles be supplementary?

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11. Can two acute angles be supplementary?

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12. Can two right angles be supplementary?

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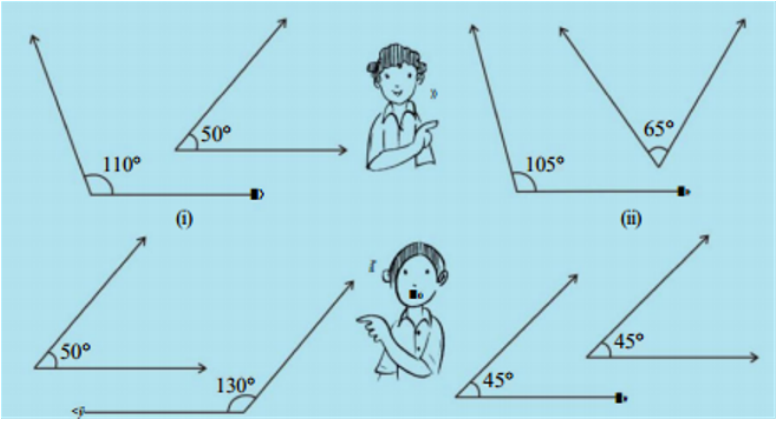
13. Find the pairs of supplementary angles



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14. What will be the measure of the supplement of each one of the following

angles?

100°

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15. What will be the measure of the supplement of each one of the following angles?

90°

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16. What will be the measure of the supplement of each one of the following angles?

55°

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17. What will be the measure of the supplement of each one of the following angles?

125°

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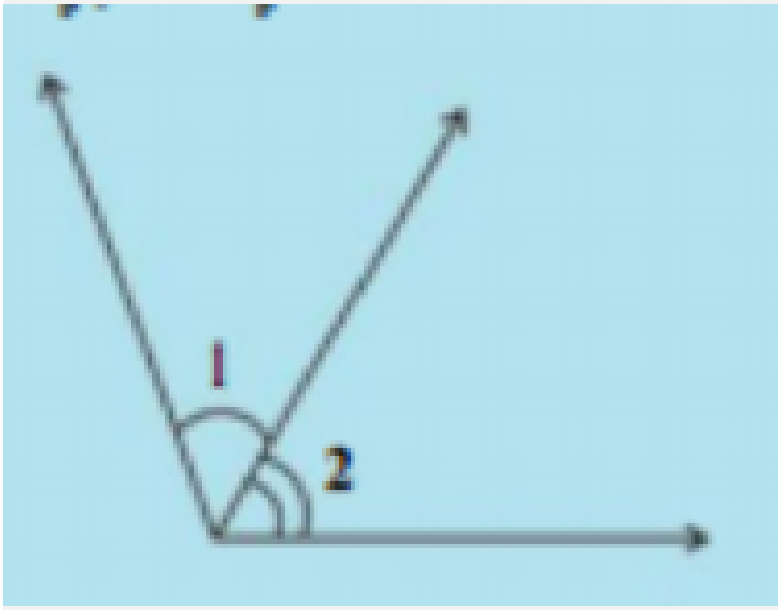
18. Are the angles marked 1 and 2 adjacent?If they are not adjacent, say,'why'.



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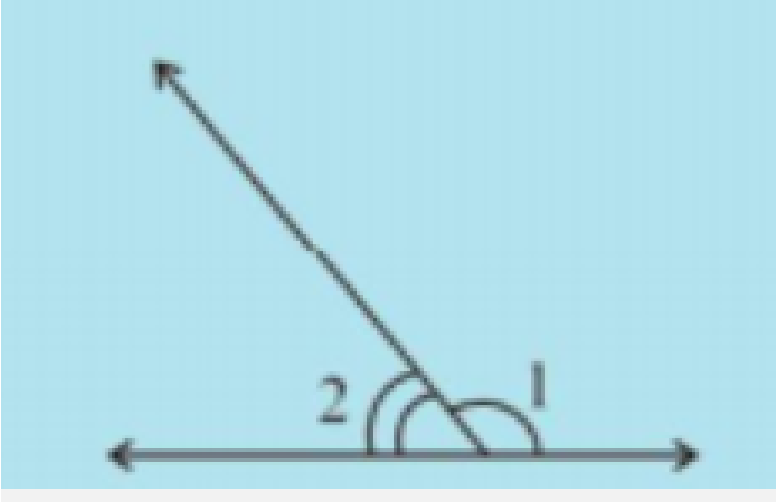
19. Are the angles marked 1 and 2 adjacent?If they are not adjacent, say,'why'.



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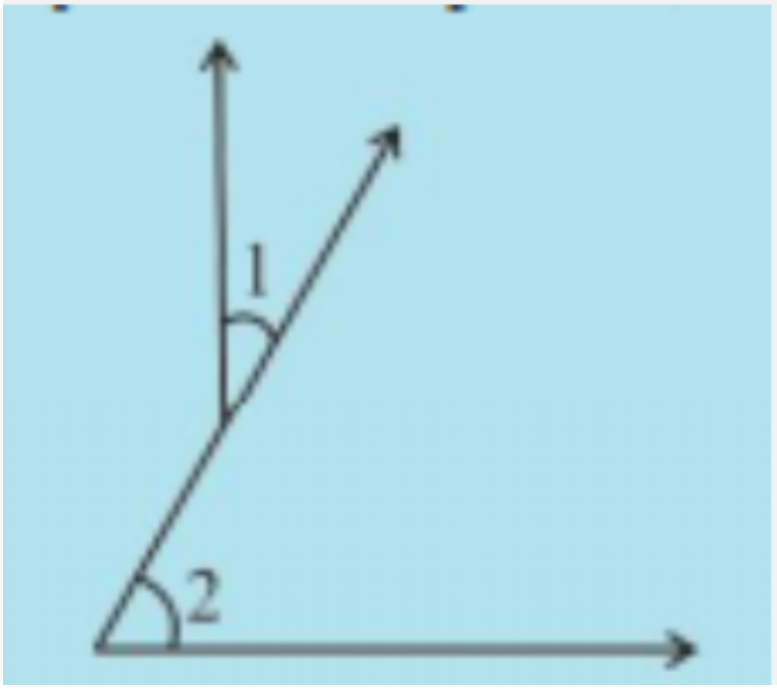
20. Are the angles marked 1 and 2 adjacent?If they are not adjacent, say,'why'.



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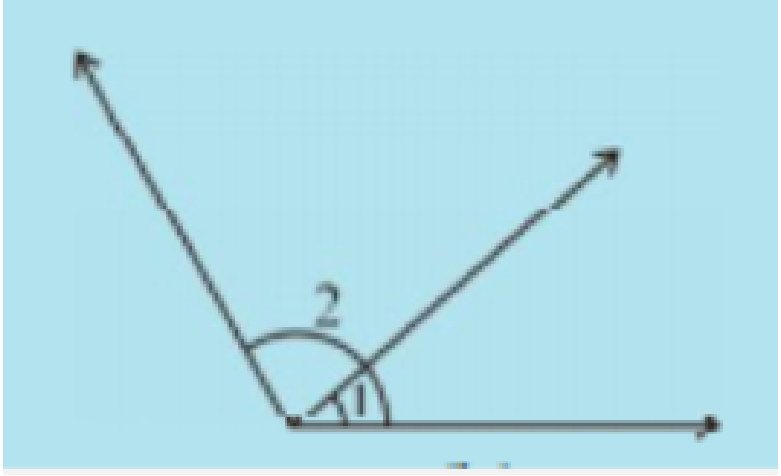
21. Are the angles marked 1 and 2 adjacent?If they are not adjacent, say,'why'.



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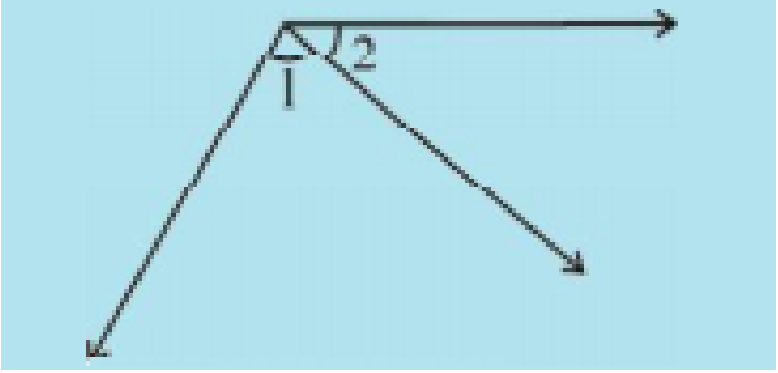
22. Are the angles marked 1 and 2 adjacent?If they are not adjacent, say,'why'.



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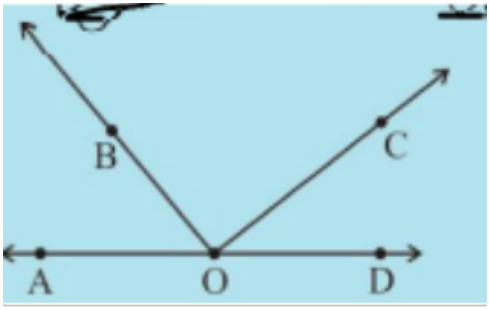
23. In the given are the following adjacent angles?

$\angle AOB$ and $\angle BOC$

Justify you answer.



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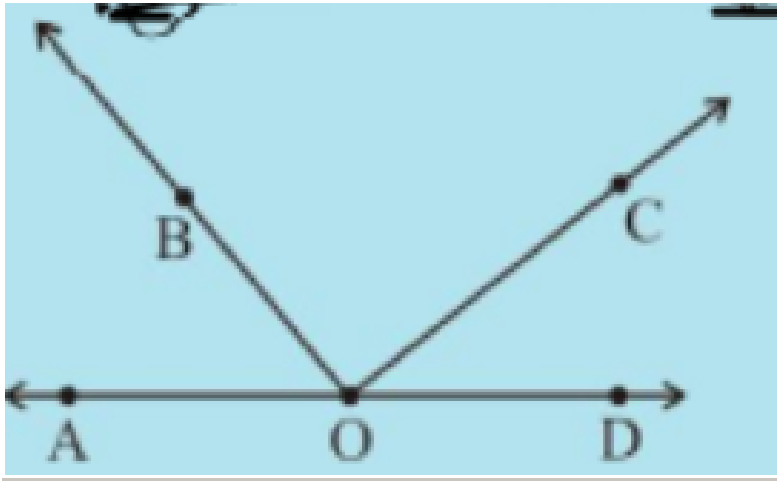
24. In the given are the following adjacent angles?

$\angle BOD$ and $\angle BOC$

Justify your answer.



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25. Can two adjacent angles be supplementary?

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26. Can two adjacent angles be complementary?

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27. Can two obtuse angles be adjacent angles?

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28. Can an acute angle be adjacent to an obtuse angle?

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29. Can two acute angles form a linear pair?

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30. Can two obtuse angles form a linear pair?

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31. Can two right angles form a linear pair?

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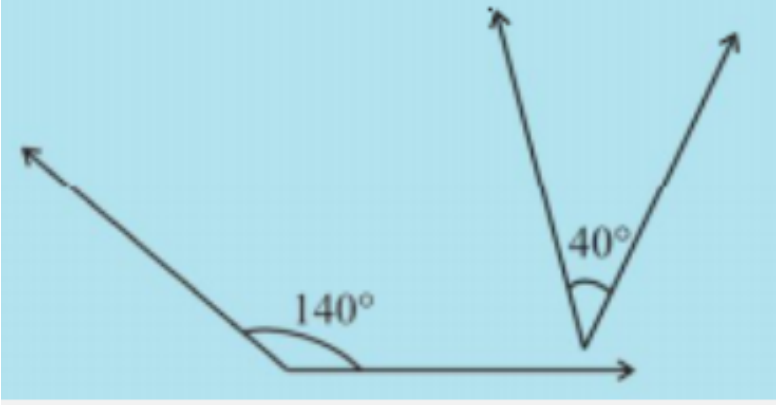
32. Check which of the following pairs of angles form a linear pair.



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33. Check which of the following pairs of angles form a linear pair.

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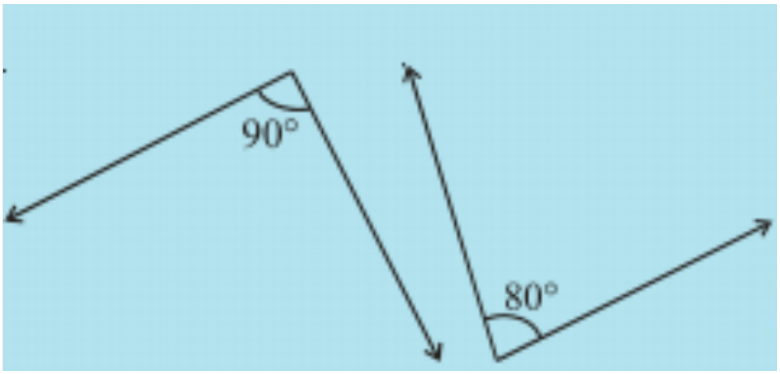
34. Check which of the following pairs of angles form a linear pair.



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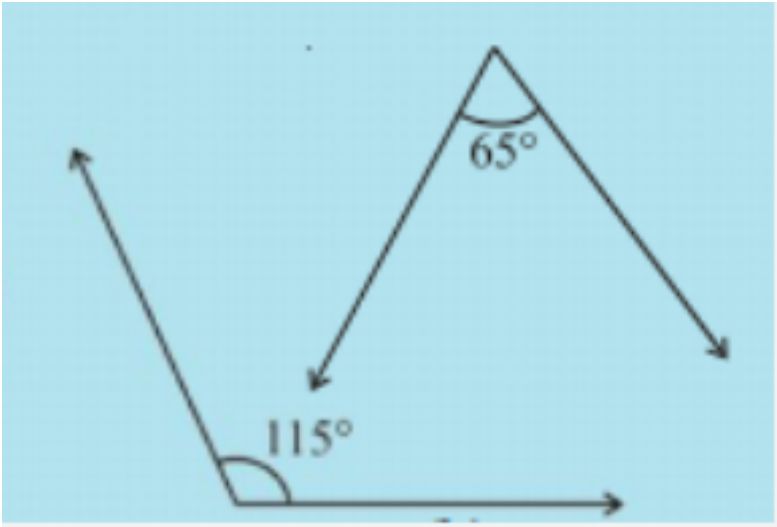
35. Check which of the following pairs of angles form a linear pair.



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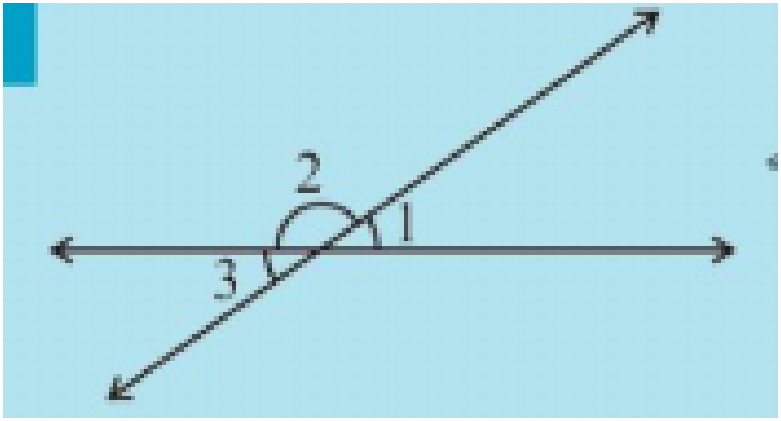
36. In the given figure, if $\angle 1 = 30^\circ$, find $\angle 2$ and $\angle 3$



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37. Give an example for vertically opposite angles in your surroundings.

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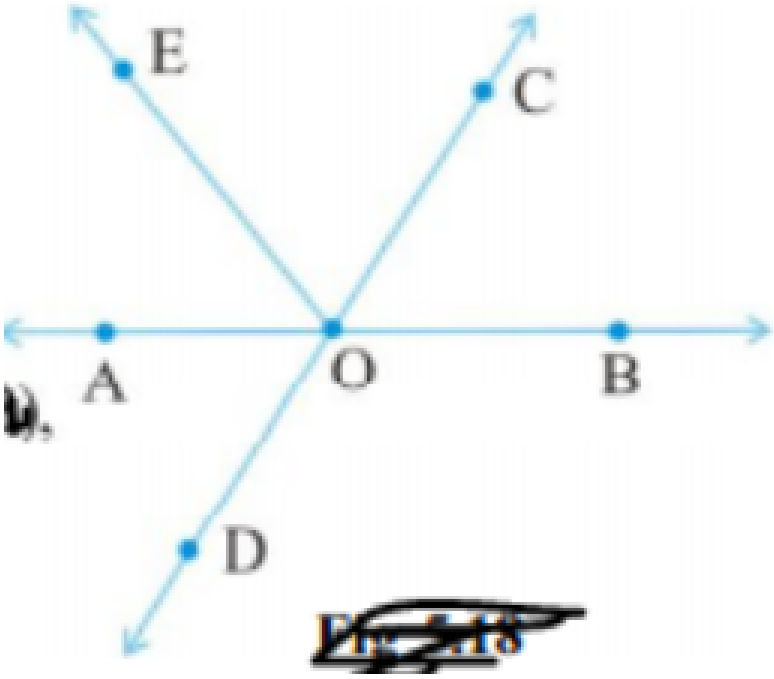
38. In identity:

Five pairs of adjacent angles.



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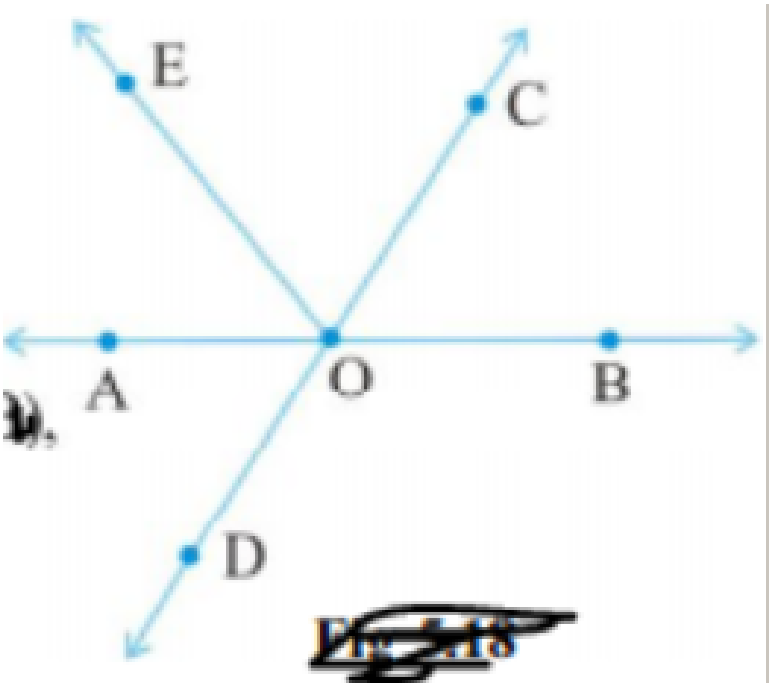
39. In identity:

Three linear pairs.



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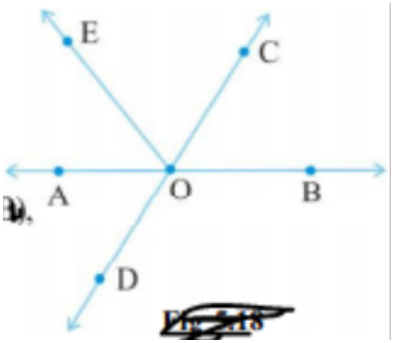
40. In identity:

Two pairs of vertically opposite angles.



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

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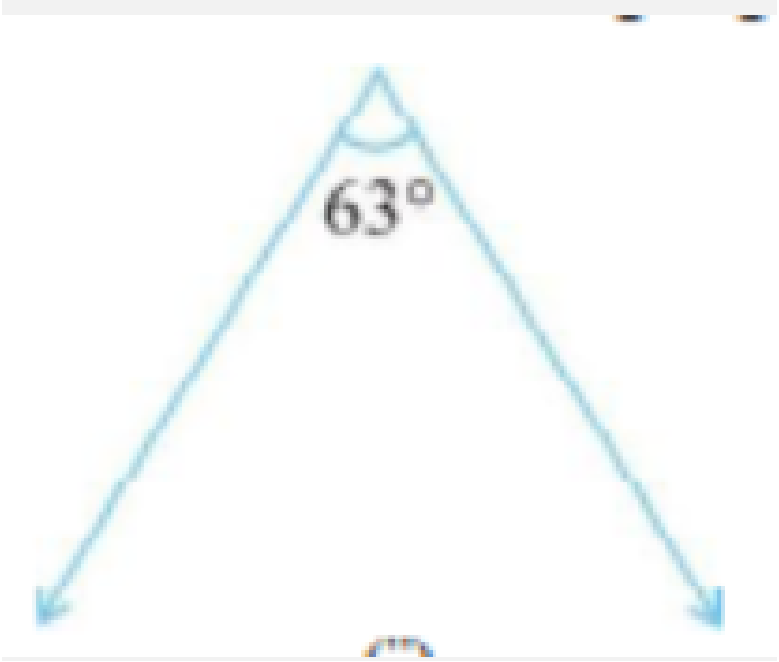
42. Find the complement of each of the following angles:



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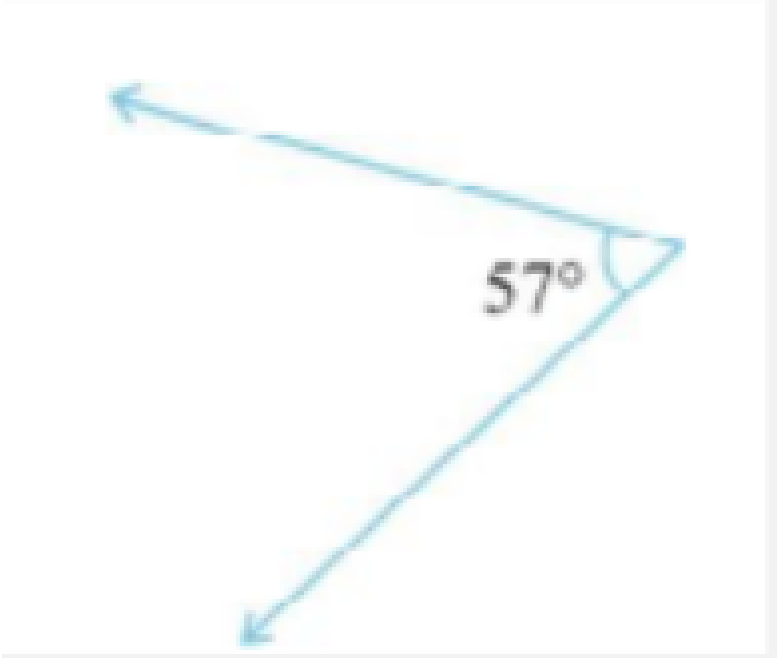
43. Find the complement of each of the following angles:



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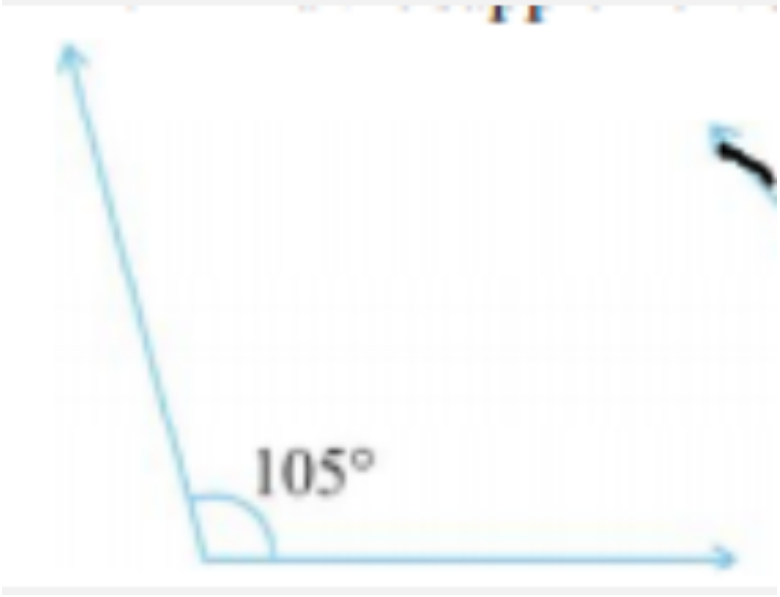
44. Find the supplement of each of the following angles:



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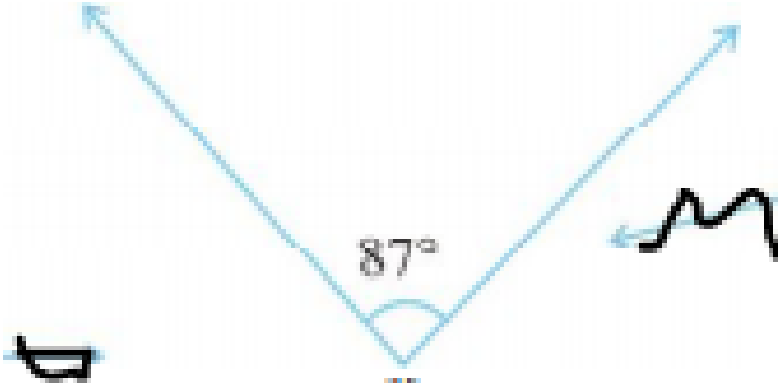
45. Find the supplement of each of the following angles:



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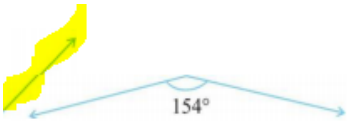
46. Find the supplement of each of the following angles:



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47. Identify which of the following pairs of angles are complementary and which are supplementary.

$65^\circ, 115^\circ$

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48. Identify which of the following pairs of angles are complementary and which are supplementary.

$63^\circ, 27^\circ$

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49. Identify which of the following pairs of angles are complementary and which are supplementary.

$112^\circ, 68^\circ$

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50. Identify which of the following pairs of angles are complementary and which are

supplementary.

$130^\circ, 50^\circ$

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51. Identify which of the following pairs of angles are complementary and which are supplementary.

$45^\circ, 45^\circ$

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52. Identify which of the following pairs of angles are complementary and which are supplementary.

$80^\circ, 10^\circ$

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

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

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

acute?

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

obtuse?

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

right?

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59. 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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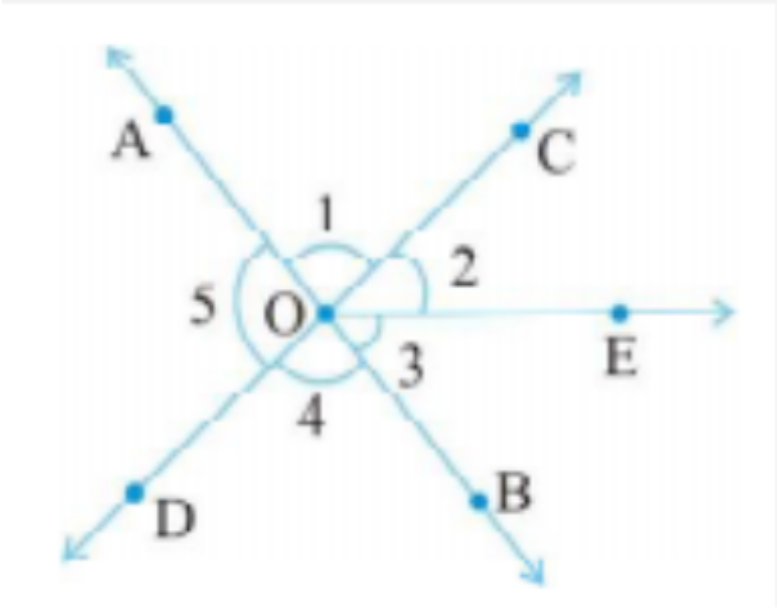
60. In the adjoining figure:



Is $\angle 1$ adjacent to $\angle 2$?

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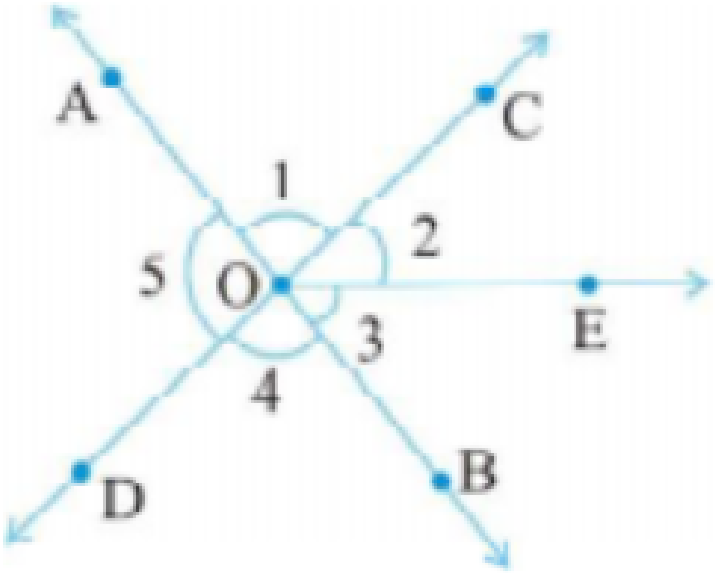
61. In the adjoining figure:



Is $\angle AOC$ adjacent to $\angle AOE$?

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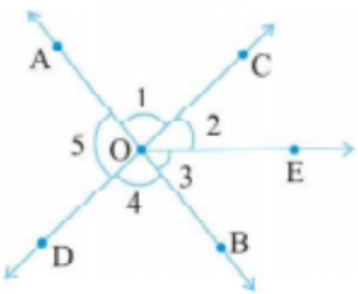
62. In the adjoining figure:

Do $\angle COE$ and $\angle EOD$ form a linear pair?



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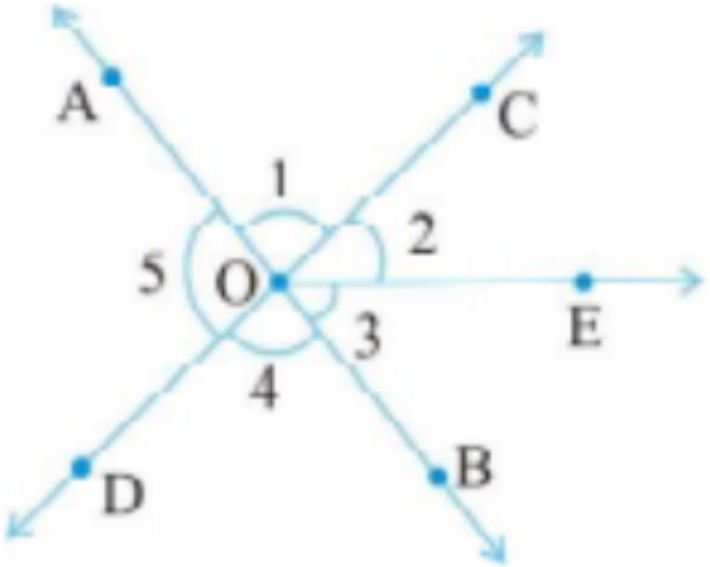
63. In the adjoining figure:



Are $\angle BOD$ and $\angle DOA$ supplementary?

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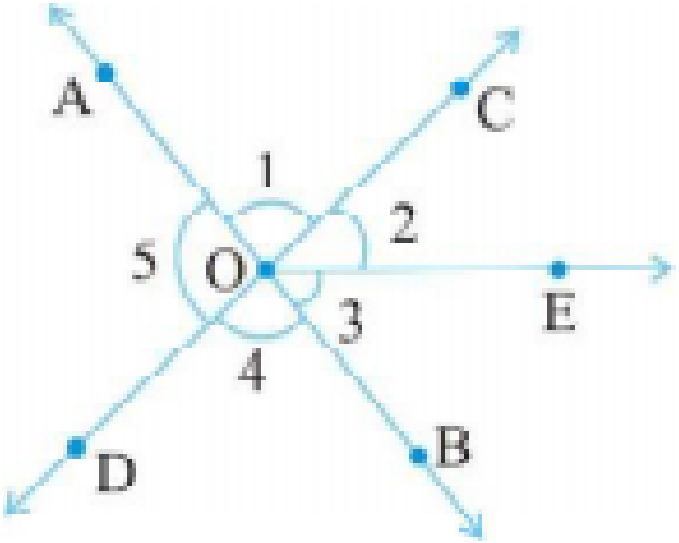
64. In the adjoining figure:



Is $\angle 1$ vertically opposite to $\angle 4$?

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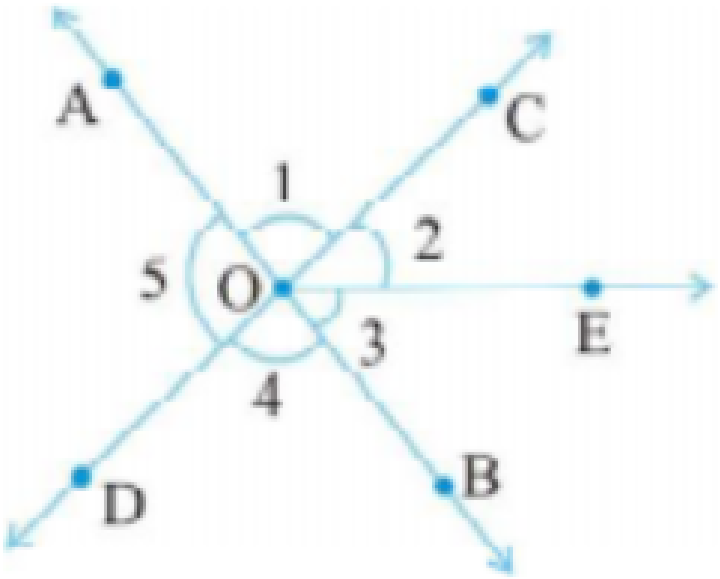
65. In the adjoining figure:



What is the vertically opposite angle of $\angle 5$?

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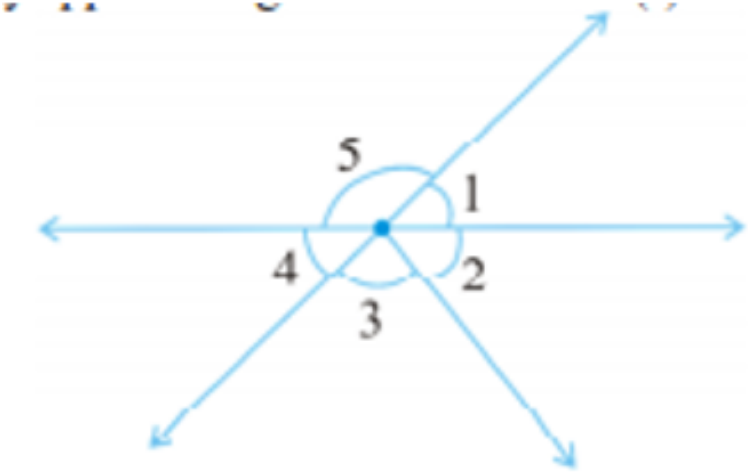
66. Indicate which pairs of angles are:

Vertically opposite angles.



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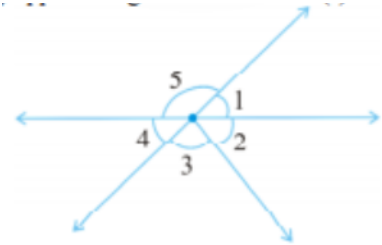
67. Indicate which pairs of angles are:

Linear pairs.



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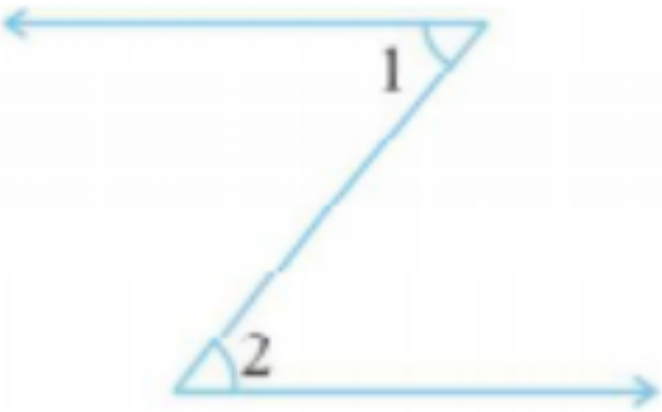
68. In the following figure, is $\angle 1$ adjacent to $\angle 2$? Give reasons.



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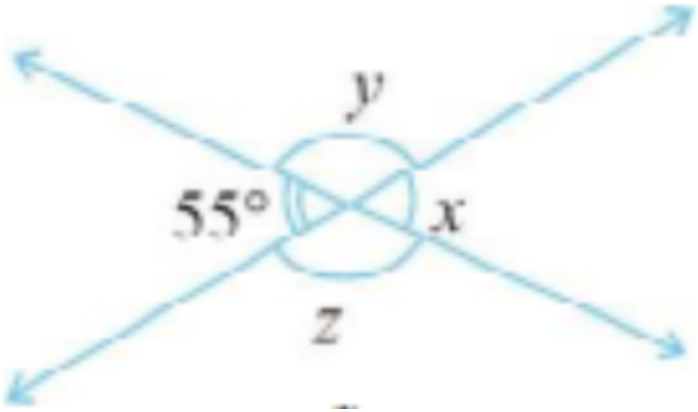
69. Find the values of the angles x,y, and z in each of the following:



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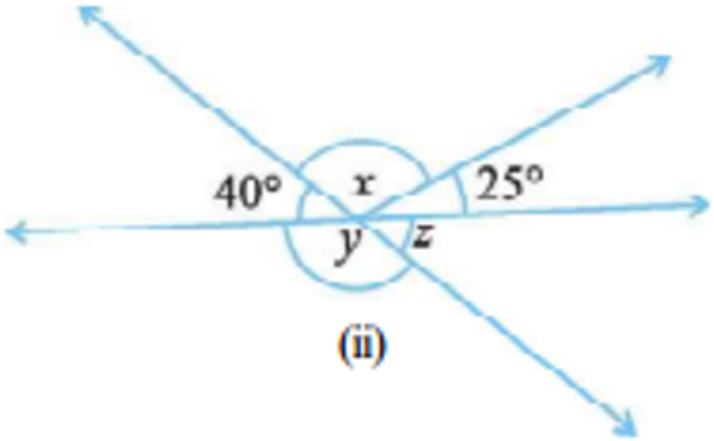
70. Find the values of the angles x,y, and z in each of the following:



(ii)

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71. Fill in the blanks:

If two angles are complementary, then the sum of their measures is _____.

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72. Fill in the blanks:

If two angles are supplementary, then the sum of their measures is _____.

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73. Fill in the blanks:

Two angles forming a linear pair are _____.

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74. Fill in the blanks:

If two adjacent angles are supplementary, they form a _____.

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75. Fill in the blanks:

If two lines intersect at a point, then the vertically opposite angles are always_____.

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76. 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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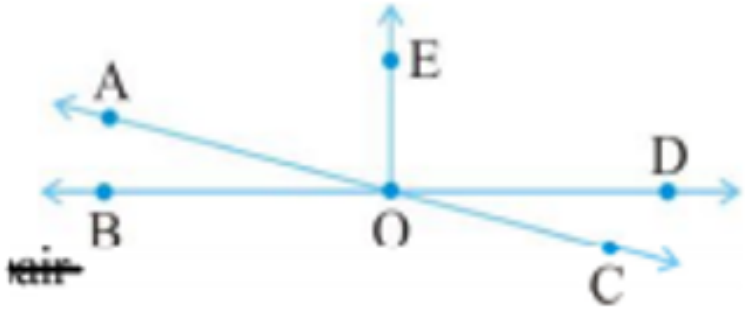
77. In the adjoining figure, name the following pairs of angles.



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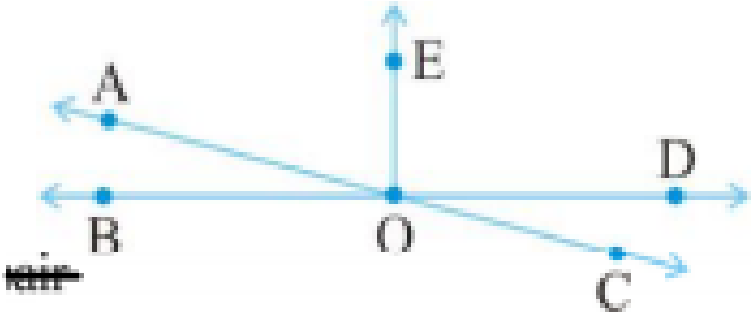
78. In the adjoining figure, name the following pairs of angles.



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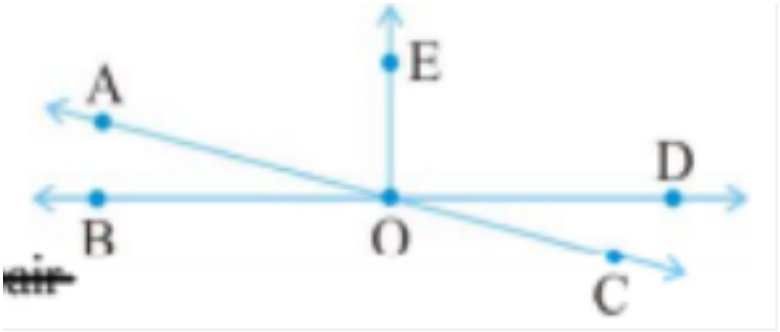
79. In the adjoining figure, name the following pairs of angles.



obtuse vertically opposite angles

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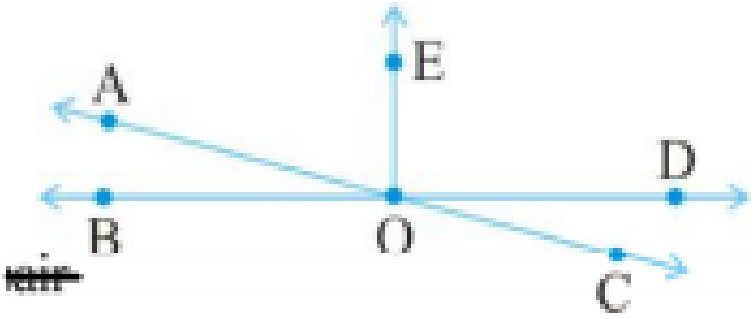
80. In the adjoining figure, name the following pairs of angles.



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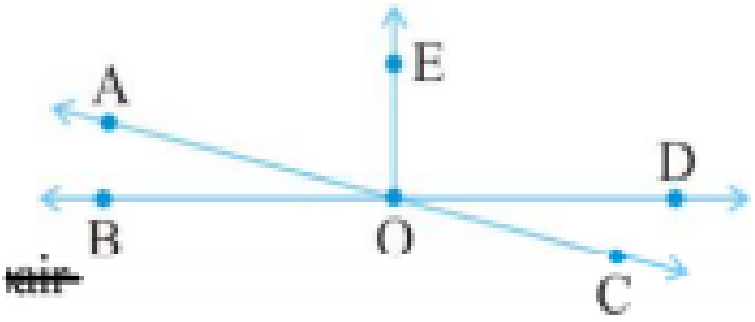
81. In the adjoining figure, name the following pairs of angles.



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82. Find examples from your surroundings where lines intersect at right angles.

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83. Find the measures of the angles made by the intersecting lines at the vertices of an equilateral triangle.

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84. Draw any rectangle and find the measures of angles at the four vertices made by the intersecting lines.

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85. If two lines intersect, do they always intersect at right angles?

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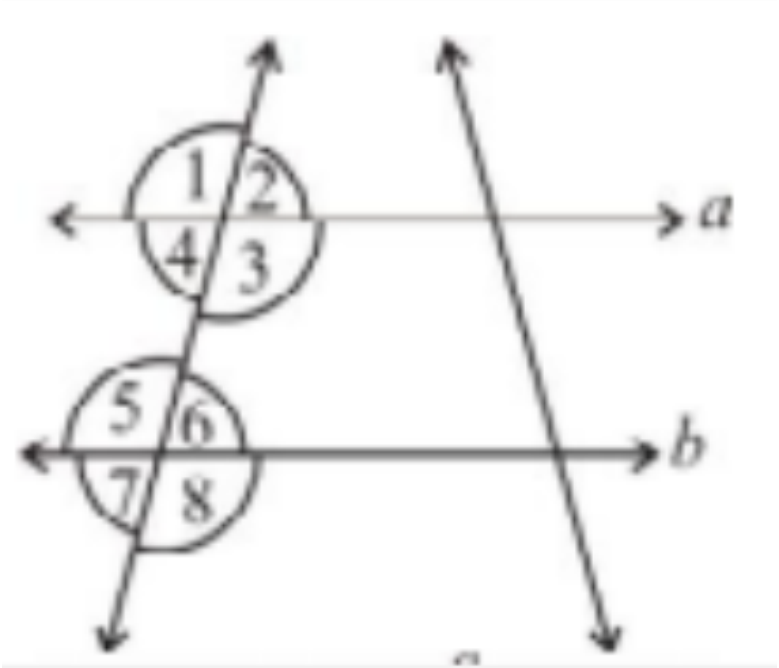
86. State the property that is used in each of the following statements?



If a||b, then $\angle 1 = \angle 5$.

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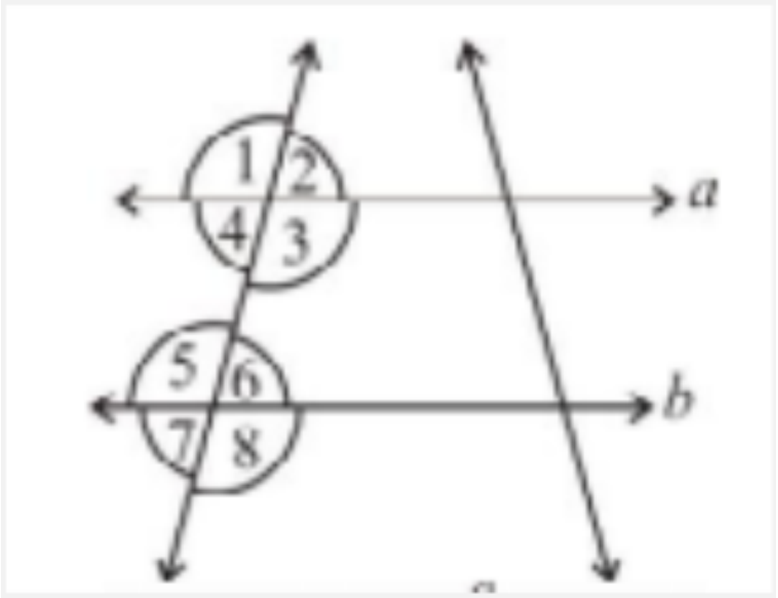
87. State the property that is used in each of the following statements?



If $\angle 4 = \angle 6$, then a||b.

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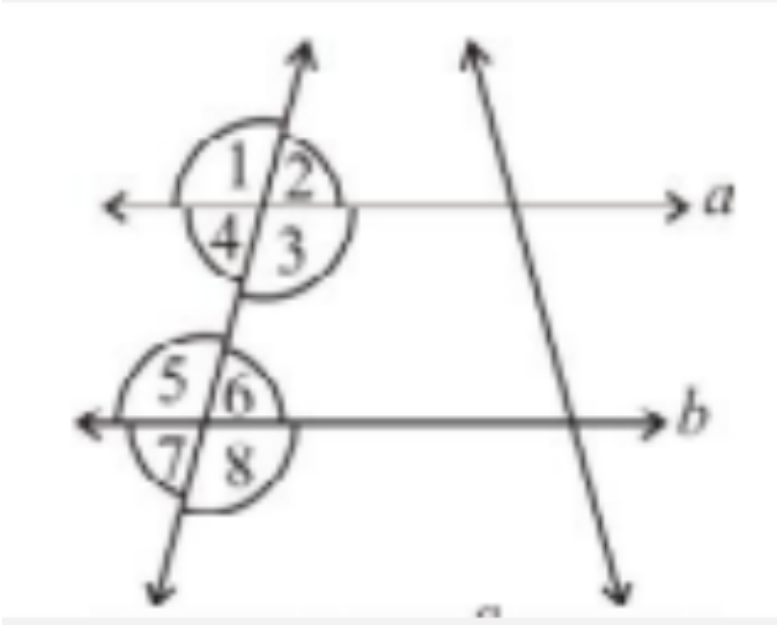
88. State the property that is used in each of the following statements?



If $\angle 4 + \angle 5 = 180^\circ$, then a||b.

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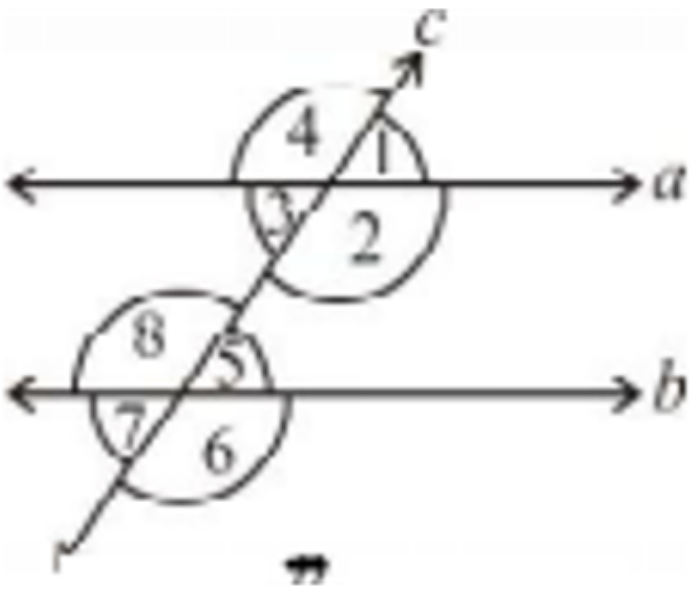
89. In the adjoining figure, identify



the pairs of corresponding angles.

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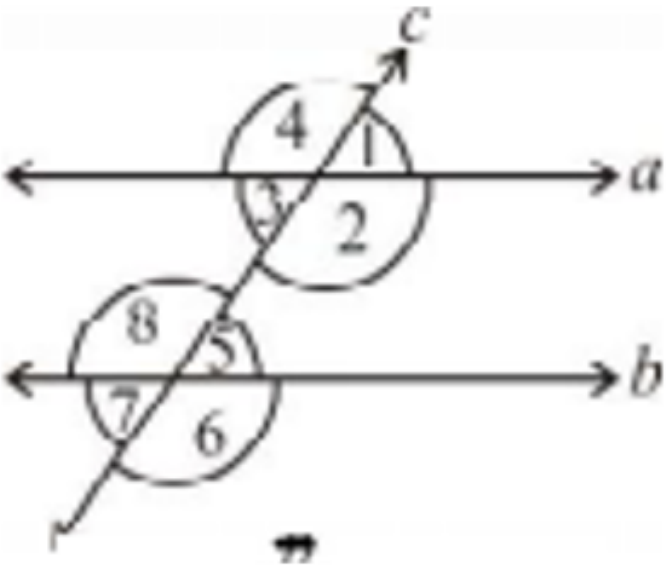
90. In the adjoining figure, identify



the pairs of alternate interior angles.

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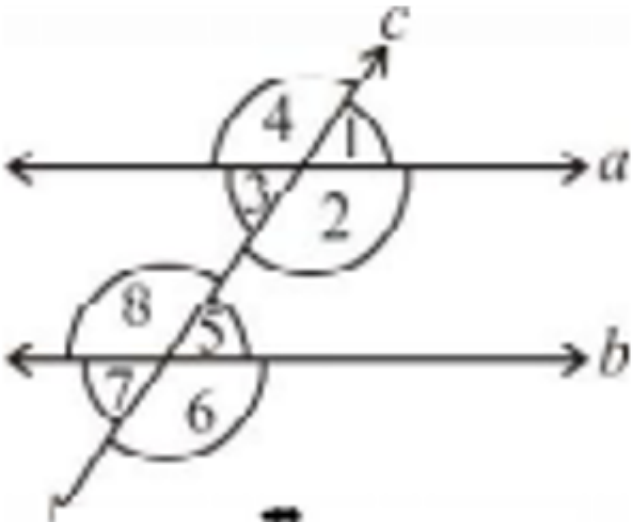
91. In the adjoining figure, identify



the pairs of interior angles on the same side of the transversal.

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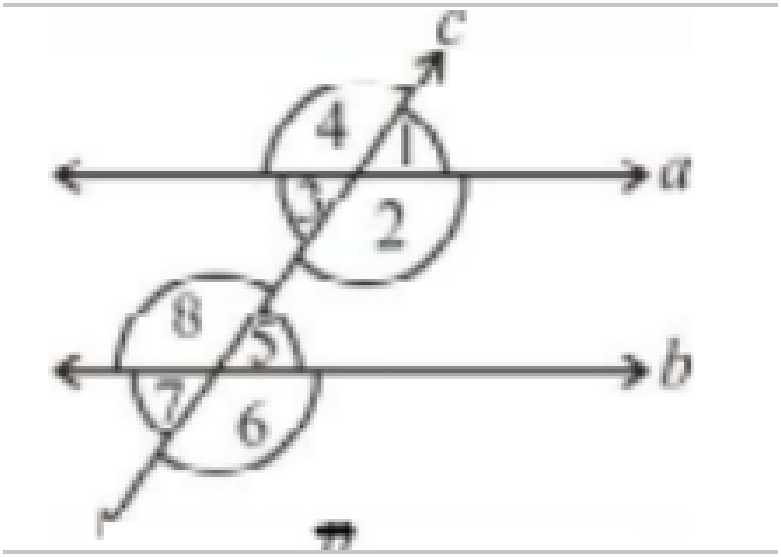
92. In the adjoining figure, identify



the vertically opposite angles.

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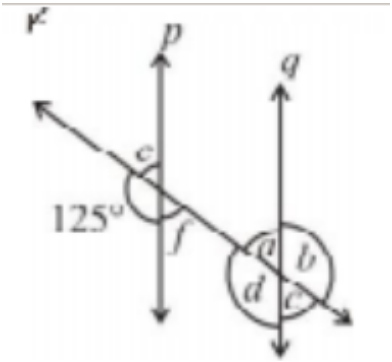
93. In the adjoining figure, p|| q. Find the unknown angles.



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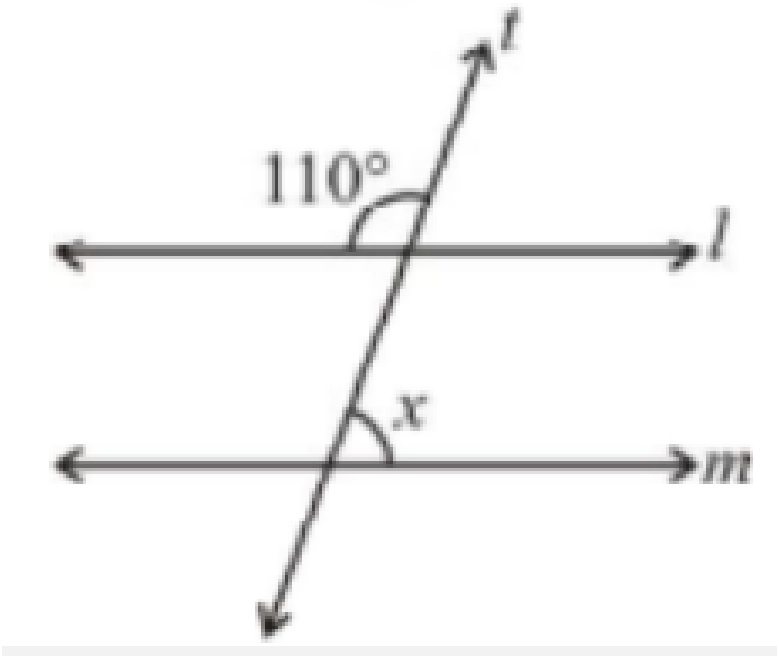
94. Find the value of x in each of the following figures if l || m.



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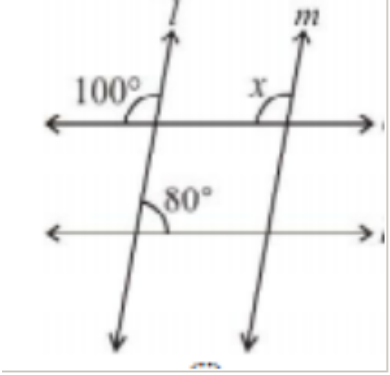
95. Find the value of x in each of the following figures if l || m.



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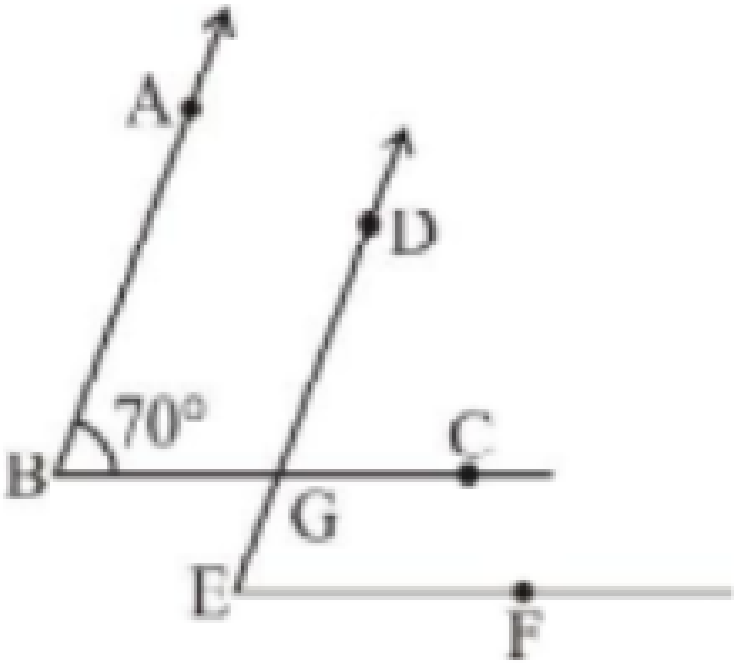
96. In the given figure, the arms of two angles are parallel.

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

$\angle DGC$



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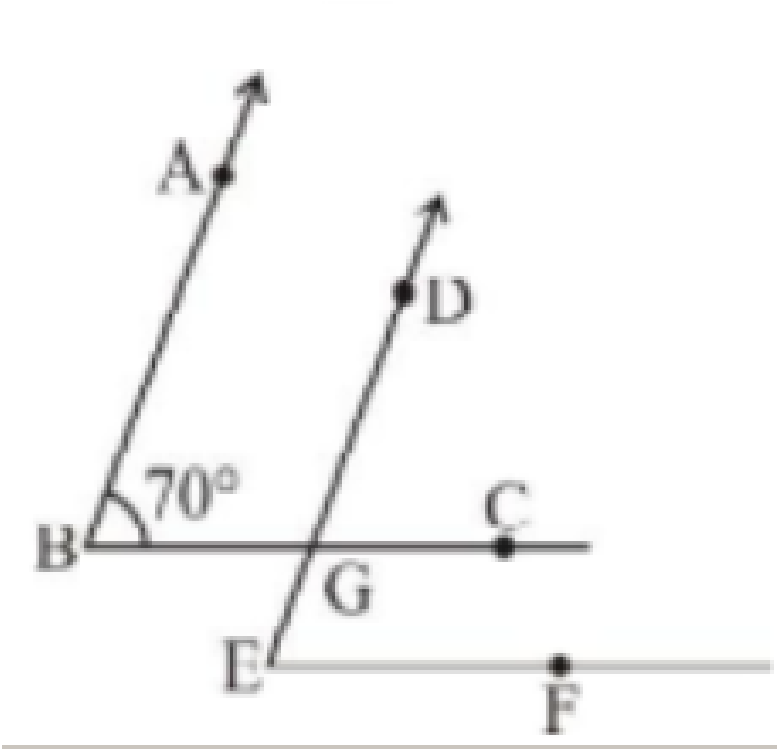
97. In the given figure, the arms of two angles are parallel.

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

$\angle DEF$



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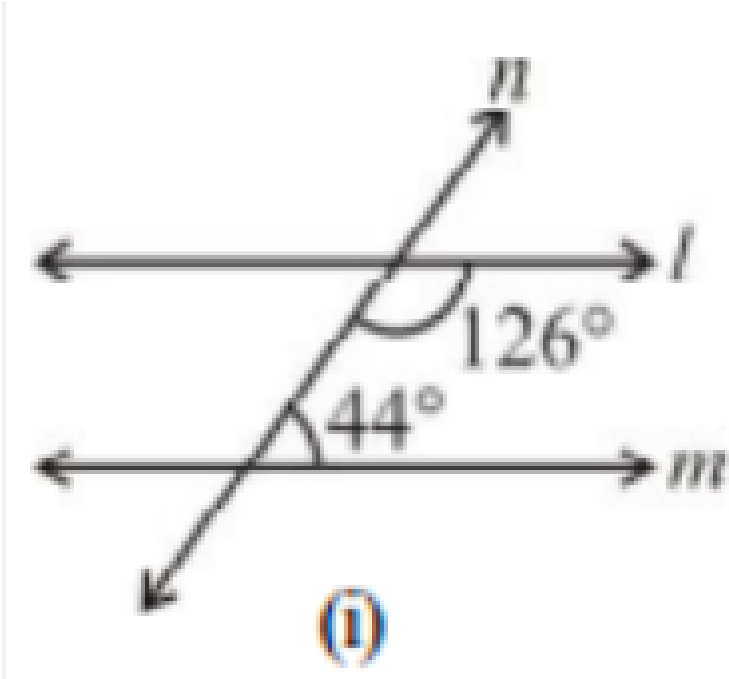
98. In the given figures below, decide whether l is parallel to m.



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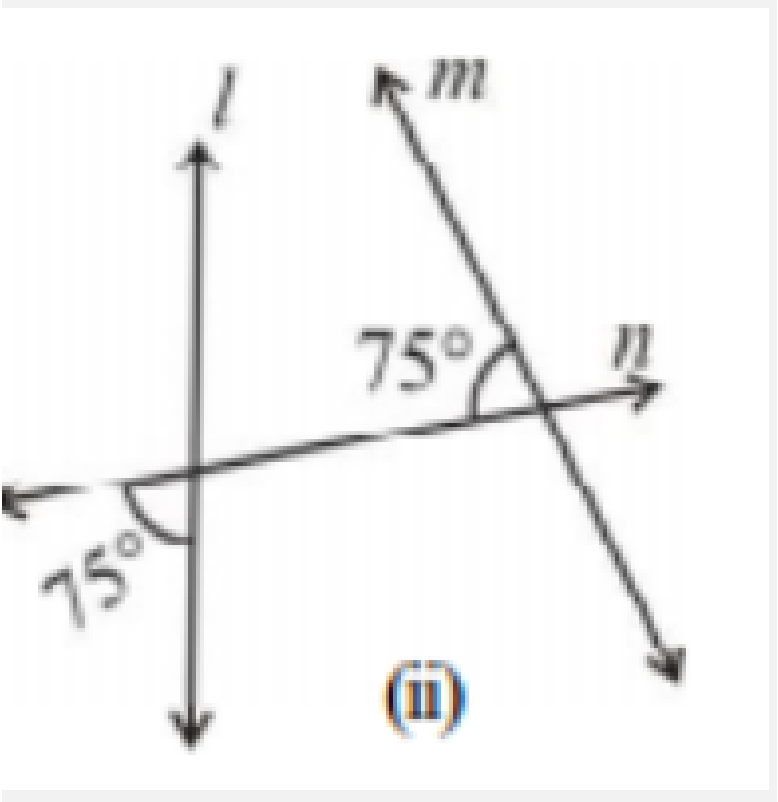
99. In the given figures below, decide whether l is parallel to m.



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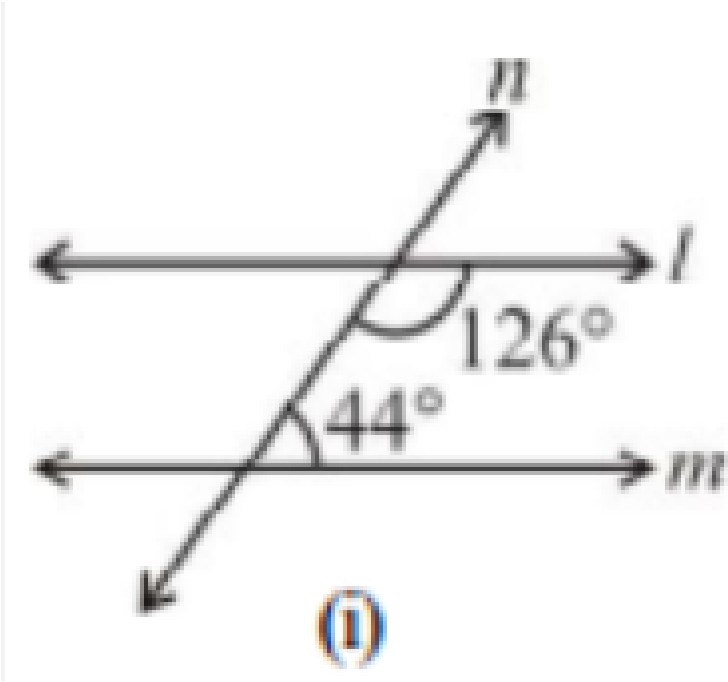
100. In the given figures below, decide whether l is parallel to m.



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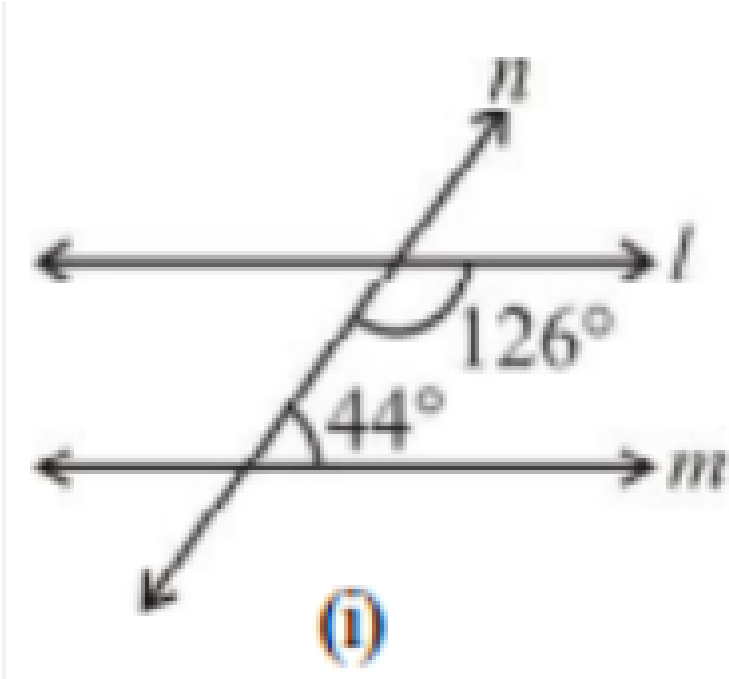
101. In the given figures below, decide whether l is parallel to m.



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