

INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2025-26

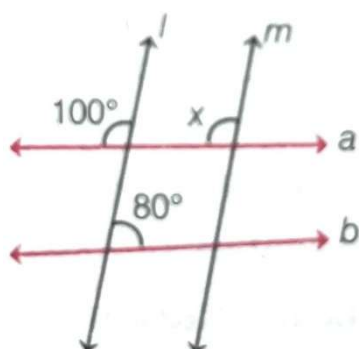
CLASS: VII

SUBJECT: MATHEMATICS

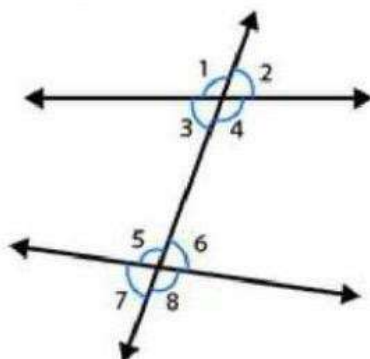
DATE: 4-12-2025

Lesson 5 : PARALLEL AND INTERSECTING LINES

1. A line that intersects two or more lines at distinct points is called-----
2. Sum of interior angles on the same side of the transversal is-----
3. A pair of adjacent angles whose measures add up to form a straight angle is known as a-----
4. ----- lines are two lines that intersect at a right angle
5. If a transversal cuts two parallel lines, each pair of corresponding angles are ----- in measure
6. If two lines are intersected by a transversal, then the number of pairs of corresponding angles is----
7. Find the value of x in the following figure if l and m are parallel lines



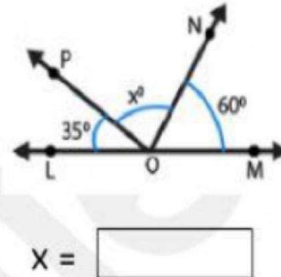
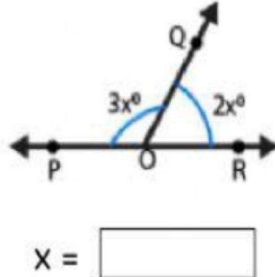
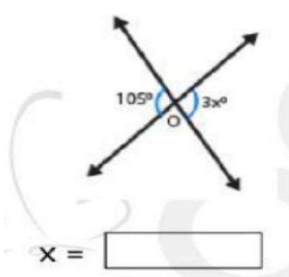
8. From the given figure, write



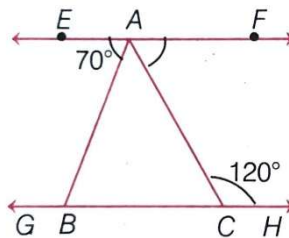
- a) Vertically opposite angles
- b) Linear pairs

- c) Corresponding angles
- d) Alternate interior angles
- e) Co-interior angles

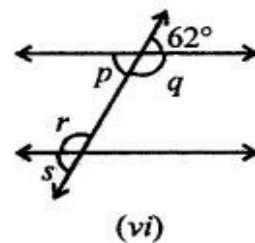
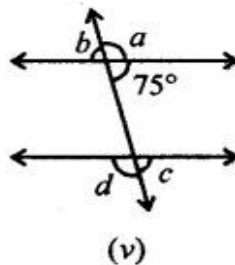
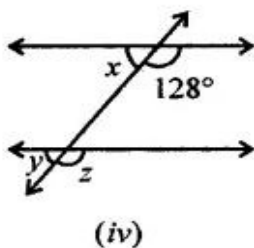
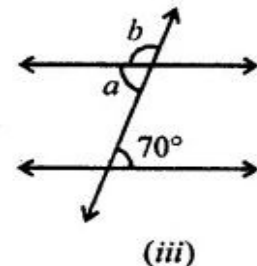
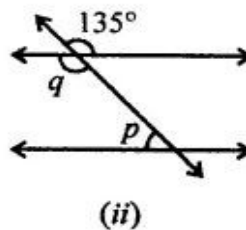
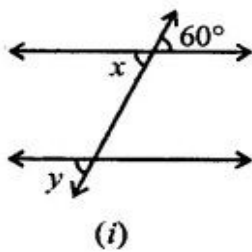
9. In the given figures, find the value of x



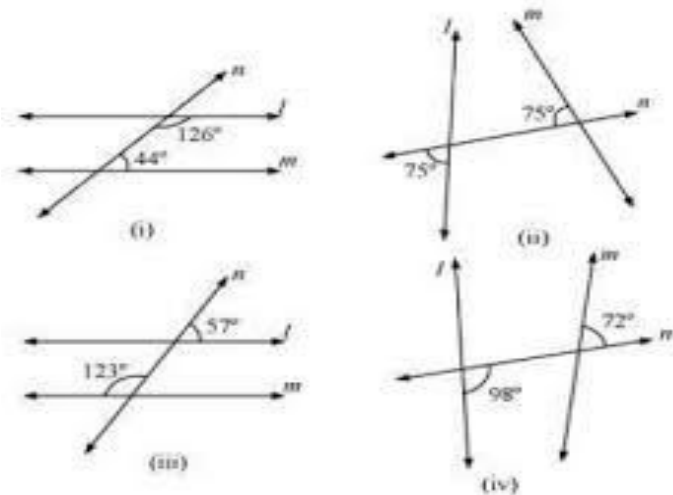
10. In the following figure, $EF \parallel GH$, $\angle EAB = 70^\circ$ and $\angle ACH = 120^\circ$. Find $\angle CAF$ and $\angle BAC$



11. In the following figures, find the unknown values when the given two lines are parallel



12. In the following figures, check whether the given lines are parallel or not



Answers:

1. Transversal
2. 180°
3. Linear pair
4. Perpendicular
5. Equal
6. 4
7. 100°
8. a) 1&4, 2&3, 5&8, 6&7
b) 1&2, 2&4, 4&3, 3&1, 5&6, 6&8, 8&7, 7&5,
c) 1&5, 2&6, 3&7, 4&8
d) 3&6, 4&5
e) 3&5, 4&6
9. a) 35° b) 36° c) 85°
10. $\angle CAF = 60^\circ$, $\angle BAC = 50^\circ$
11. i) $x = 60^\circ$, $y = 60^\circ$
ii) $q = 135^\circ$, $p = 45^\circ$
iii) $a = 70^\circ$, $b = 110^\circ$
iv) $x = 52^\circ$, $y = 52^\circ$, $z = 128^\circ$
v) $a = 105^\circ$, $b = 75^\circ$
vi) $p = 62^\circ$, $q = 118^\circ$, $r = 118^\circ$, $s = 62^\circ$
12. i) No ii) No iii) Yes iv) No
