

INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2025-26

CLASS:11

SUBJECT: Mathematics

DATE: 24/10/25

LESSON : STRAIGHT LINES

1. What is the inclination of a line which is parallel to x-axis?
[a) 0° b) 180° c) 45° d) 90°]
2. Find slope of line if inclination made by the line is 60° .
[a) $1/2$ b) $1/\sqrt{3}$ c) $\sqrt{3}$ d) 1]
3. If angle between the two lines is 45° and slope of one line is $1/4$ then which of the following is possible value of the slope of other line.
[a) $5/3$ b) $3/5$ c) $-5/3$ d) $4/5$]
4. If slope of one line is $1/4$ and other is $5/3$, then find the angle between two lines.
5. If line joining (1, 2) and (5, 7) is parallel to line joining (3, 4) and (11, x), Find x
6. If P (1, 2), Q (3, 5), R (7, 9) form a triangle then find the equation of median through P.
7. If equation of line is $x + y = 2$ then find the perpendicular distance of line from origin.
8. Find the equation of line parallel to $4x + y = 2$ and pass through (2, 5).
9. Find k so that the distance from (2, 3) to the line $8x + 15y + k = 0$ may be equal to 4 units.
10. Find the image of (2, 1) w. r. to the line $x + y - 5 = 0$.
11. If a straight line cuts the co-ordinate axes at A and B and if (3, 2) is the mid point of AB, find the equation of AB.