Aarambh Classes

Class XI

MATHS TEST

Straight lines

TIME : 1 hour M.Marks : 20

1. If the angles between two lines is π/4 and the slope of one of the lines is ½ ,find the slope of the other line .
2. Find the equation of the perpendicular bisector of the line joining the points A (2,3 ) and B (6,-5) .
3. Find the angle which the line joining the points (1, )and ( , )makes with the x –axis .
4. If A (-1,6 ) ,B (-3,-9) and C (5,-8) are vertices of a Δ ABC ,find the equations of its medians .
5. Find the equation of the line passing through the point (-2,-4) and perpendicular to the line 3x-y+5 =0 .
6. Find the equation of the line passing through the point of intersection of the lines 4x+7y-3 =0 and 2x-3y +1 =0 ,which has equal intercepts on the axes .
7. Find the equation of the line whose perpendicular diatance from the origin is 3 units and the angle between the positive direction of x-axis and the perpendicular is 15°.
8. Reduce the eqaution 3x-2y +4=0 to intercepst form and find the length of the segment intercepted between the axes .
9. Find the distance between the lines 3x-4y +9 =0 and 6x-8y –17 =0 .
10. Find the image of the point P(3,8 ) with respect to the line x+3y=7 ,assuming the given line to be a plane mirror .