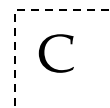


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INDIAN SCHOOL MUSCAT FIRST PERIODIC TEST

MATHEMATICS

CLASS: XI

Sub. Code: 041

Time Allotted: 50 mts.

04.12.2018

Max. Marks: 20

GENERAL INSTRUCTIONS:

1. All questions are compulsory.
2. Questions 1 to 4 carry TWO marks each.
3. Questions 5 to 7 carry FOUR marks each.

1. Find the equation of the line passing through the point P (-3 , 0) and making an angle of 150° with the positive direction of x-axis. 2
2. Reduce the equation $x - \sqrt{3}y - 8 = 0$ to normal form. Also find the perpendicular distance from the origin and the angle between perpendicular and the positive direction of x-axis. 2
3. If the distance of the point (-4,2) from the line $3x + 4y + k = 0$ is 3 units, find the value(s) of k. 2
4. Find the angle between the lines $x + \sqrt{3}y - 1 = 0$ and $\sqrt{3}x + y - 1 = 0$ 2
5. Find the coordinates of the foot of perpendicular drawn from the point (1,-2) on the line $4x - 3y - 5 = 0$ 4
6. Find the equation of a straight line passing through the point of intersection of the lines $3x + y - 9 = 0$ and $4x + 3y - 7 = 0$ and perpendicular to the line $5x - 4y + 1 = 0$. 4
7. Find the equations of the lines which pass through the point (3,4) and sum of whose intercepts on the axes is 14. 4

End of the Question Paper