MATHS

BOOKS - A N EXCEL PUBLICATION

STRAIGHT LINES

Question Bank

1. Draw a quadrilateral in the cartesian plane whose vertices are

$(-4, 5), (0, 7), (5, -5)$ and $(-4, -2)$.

also, find its area.

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2. The base of an equilateral triangle with side 2a lies along the y - axis such that the midpoint of the base is at the origin. Find vertices of the triangle.

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3. Find the distance between $P(x_1, y_1)$ and $Q(x_2, y_2)$ when PQ is parallel to the y-axis.

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4. Find the distance between $P(x_1, y_1)$ and $Q(x_2, y_2)$ when PQ is parallel to the X-axis.

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5. Find a point on the x-axis,which is equidistant from the points (7,6) and (3,4)

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6. Find the slope of a line, which passes through the orgin and the mid point of the line segment joining the points P(0,-4) and B (8,0)

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7. Without using the pythagoras theorem show that the points (4,4),(3,5) and (-1, -1) are the vertices of a right angled triangle.

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8. Find the slope of the line, which makes' angle of 30° with the positive direction of y-axis measured anticlockwise.

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9. Find the value of x for which the points (x,-1), (2,1)and(4,5) are collinear.

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10. Without using distance formula, show that (-2, -1),(4,0),(3, 3) and (-3,2) are the vertices of a parallelogram.

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11. Find the angle between the positive x-axis and the line joining the points (3,-1) and (4,-2).

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12. The slope of a line is double of the slope of another line. if tangent of the angle between them is $\frac{1}{3}$ find the slopes of the lines.

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13. A line passes through (x_1, y_1) and (h,k). if the slope of the line is m, show that $k - y_1 = m(h - x_1)$

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14. If three points (h,0), (a,b) and (0,k) lie on a line, show that $\frac{a}{h} + \frac{b}{k} = 1$

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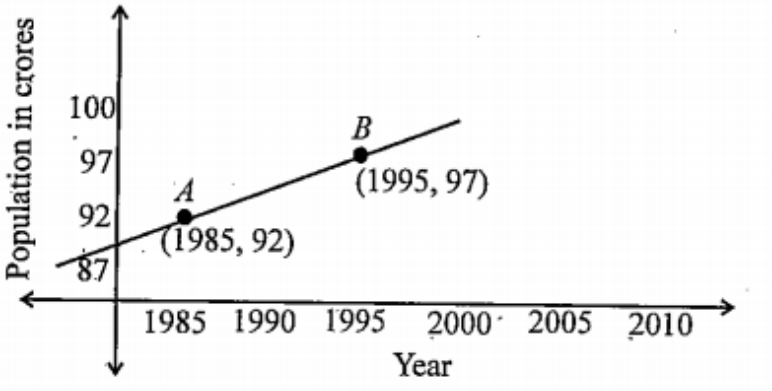
15. Consider the following population and year hraph (sec figure). find the slope of the line AB and using it, find what will be the population in the year 2010?



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16. Find the slope of the line joining (x,- 1) and (2,1)

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17. Find the slope of the line joining (2,1) and (4,5)

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18. Find the value of x for which the points (x,-1),(2,1)and(4,5) are collinear.

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19. Consider the line passing through the points (3,4) and (x,5) Find the slope of the line

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20. Consider the line passing through the points (3,4) and (x,5) if the line makes an angle of 135° with positive direction of x-axis, find the value of x.

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21. Find the slope of the line through (3,y) and (2,7)

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22. Find the slope of the line passing through (-1,4) and (0,6)

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23. If the lines passing through (3,y) and (2,7) are parallel to the line through (– 1, 4) and (0, 6) find the value of y

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24. If the lines passing through (3,y) and (2,7) are perpendicular find the value of y

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25. Consider the triangle with vertices A (4,4),B (3,5) and C (-1,-1) Using pythagoras theorem prove that Δ ABC is right angled.

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26. Without using the pythagoras theorem show that the points (4,4),(3,5) and (-1, -1) are the vertices of a right angled triangle.

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27. Consider a quadrilateral whose vertices are A (- 4,2),B (2,6), C (8,5) and D (9,7) Find the mid point of the sides of the quadrilateral.

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28. Consider a quadrilateral whose vertices are A (- 4,2),B (2,6), C (8,5) and D (9,7) Find the mid point of the sides of the quadrilateral.

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29. Find the equation of a line that has y-intercept 5 and is perpendicular to the line joining (2, -3) and (4,2)

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30. Find the equation of the perpendicular bisector of the line segment joining the points A (2,3) and B (6, -5).

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31. In what ratio is the line joining the points (4, -5) and (2,3) divided by the line passing through the points (6,8) and (-3,-2).

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32. Find the equation to the straight line which passes through the point (5,6) and has intercepts on the axes equal in magnitude and both positive.

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33. The $\perp r$ distance of a line from the origin is 5 cms and its slope is -1. find the equation of the line

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34. Write the equation for x- axis and y-axis.

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35. Find the equation of the line passing through (-4,3) and with slope $\frac{1}{2}$

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36. Find the equation of the line passing through (0,0) with slope m.

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37. Find the equation of the line passing through $\left(2, 2\sqrt{3}\right)$ and inclined with the x-axis at an angle of 75°

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38. Find the equation of the line intersecting the x-axis at a distance of 3 units to the left of origin with slope -2.

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39. Find the equation of the line intersecting the y-axis at a distance of 2 units above the origin and making an angle of 30° with the positive direction of the x-axis.

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40. Find the equation of the line passing through (-1,1) and (2, -4)

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41. Find the equation the following lines satisfying the given conditions.

perpendicular distance from origin is 5 units and the angle the perpendicular makes with the positive direction of x-axis is 30°.

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42. The vertices of Δ PQR are P (2, 1),Q (-2,3) and R (4,5).find the equation of the median through the vertex R.

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43. Find the equation of the line passing through the point (-3,5) and perpendicular to the line through the points (2,5) and (-3,6).

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44. A line perpendicular to the line segment joining the points (1,0) and (2,3) divides it in the ratio 1:n. find the equation of the line.

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45. Find the equation of the line that cut off equal intercepts on the coordinate axis and passes through the point (2,3)

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46. Find the equation of the line passing through the point (2,2) and cutting off intercepts on the axis whose sum is 9.

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47. Find the equation of the line through the point (0,2) making an angle $\frac{2\pi}{3}$ with the positive x-axis,also find the equation of the line parallel to it and crossing the y-axis at a distance 2 units below the origin.

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48. The perpendicular from the origin to a line meets it at the point (-2,9),find the equation of the line.

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49. The length L (in cms) of a copper rod is a linear function of its celsius temperature C. in an experiment, if L = 124.942 when C = 20 and L =125.134 when C = 110 express L interms of C.

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50. The owner of a milk store finds that he can sell 980 litres of milk each week at Rs. 14/litre and 1220 litres of milk each week at Rs. 16/litre. Assuming a linear relationship between selling price and demand, how many litres could he sell weekly at Rs.17/litre.

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51. P(a,b) is the mid-point of a line segment between axis. Show that equation of the line is $\frac{x}{a}+\frac{y}{b}=2$

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52. Point R (h,k) divides the line segment between the axes in the ratio 1:2. find the equation of the line.

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53. By using the concept of equation of a line, prove that the three points (3,0),(-2,-2) and (8,2) are collinear.

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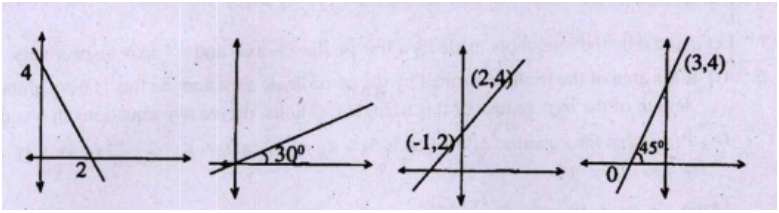
54. Look at the following figures. By observing the figures write down their cartesian equations



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55. What is the geometric property possessed by the straight lines of each system given by $y = mx + 8$

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56. What is the geometric property possessed by the straight lines of each system given by $y = 6x + 8$

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57. What is the geometric property possessed by the straight lines of each system given by $9x + 6y = k$

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58. What is the geometric property possessed by the straight lines of each system given by $y + 4 = m(x - 5)$

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59. What is the geometric property possessed by the straight lines of each system given by $1 = \frac{x}{a} + \frac{y}{3}$

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60. What is the geometric property possessed by the straight lines of each system given by $(4x + 3y + 2) + k(3x + 7y) = 0$

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61. Find the slope of the line joining the points $(a\cos\theta, b\sin\theta)$ and $(a\cos\phi, b\sin\phi)$

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62. If the line joining the points $(a\cos\theta, b\sin\theta)$ and $(a\cos\phi, b\sin\phi)$.Prove that the equation of this lines is $\frac{x}{a}\cos\frac{\theta+\phi}{2} + \frac{y}{b}\sin\frac{\theta+\phi}{2} = \cos\frac{\theta-\phi}{2}$

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63. Find the equation of the line joining the points (2,3) and (4,1)

64. Find the co-ordinates of the point which divides the line joining the points (-3,4) and (-1,-2) in the ratio l : m

65. Find the ratio of division in the point of division lies on the line in

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66. Consider the points A (2,3) and B (6,5) Find the co-ordinates of the mid point of the segment joining A and B

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67. Consider the points A (2,3) and B (6,5) find the slope of AB

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68. Consider the points A (2,3) and B (6,5) What is the slope of a line perpendicular to AB?

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69. Consider the points A (2,3) and B (6,5) Find the equation of the perpendicular bisector of the line segment AB

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70. Let a and b be the intercepts made by a line on the x-axes and y-axes respectively If the area of the triangle formed by the co-ordinate axes and the line is 6 sq. units and the lenght

of the hypotenuse of this triangle is 5 units, derive two equations in a and b

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71. Let a and b be the intercepts made by a line on the x-axes and y-axes respectively.If the area of the triangle formed by the coordinate axis and the line is 6 square units and length of the hypotenuse is 5 units. Prove that the equation of the line is $3x + 4y = 12$ or $3x + 4y = -12$ or $4x + 3y = 12$ or $-4x - 3y = 12$

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72. Suppose that two opposite vertices of a square are (1,2) and (5,8) Find the co-ordinates of its other two vertices

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73. Suppose that two opposite vertices of a square are (1,2) and (5,8) Find the equations of the sides of the square

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74. Consider the points P (2,4) and Q (-2,5) Find the slope of PQ

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75. Consider the points P (2,4) and Q (-2,5) Find the mid point of PQ Hence, find the equation of the perpendicular bisector of PQ

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76. Suppose D (2,1), E (-5,7),F(-5,-5) are the mid points of the sides AB,BC and CA of the triangle ABC Find the slope of DF,DE and EF

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77. Suppose D (2,1), E(-5,7),F (-5,-5) are the mid points of the sides AB,BC and CA of the triangle ABC Find the equation of the sides AB, BC and CA

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78. Reduce the equation $\sqrt{3}x + y + 2 = 0$ to : slope - intercept from and find slope and y - intercept ,

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79. Reduce the equation $\sqrt{3}x + y + 2 = 0$to : intercept form and find intercepts on the axes:

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80. Reduce the equation $\sqrt{3}x + y + 2 = 0$to :

the normal from and find p and α

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81. If p be the measure of the perpendicular segment from the origin on the line whose intercepts on the axis are a and b show that

$$\frac{1}{p^2} = \frac{1}{a^2} + \frac{1}{b^2}$$

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82. Find the distance of the point (- 2,3) from the line x - y = 5.

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83. Find the distance of the point (4,2) from the line joining (4,1) and (2,3).

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84. Reduce the following equations into slope intercept form and find their slopes and the y-intercepts.

i) $x + 7y = 0$

ii) $6x + 3y - 5 = 0$

(iii) $y = 0$

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85. Reduce the equation $6x + 3y - 5 = 0$ into slope intercept form and hence find it slope

and y-intercept

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86. Reduce the following equation into slope intercept form and find their slopes and the y-intercepts $x + 7y = 0$

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87. Find the x and y intercepts of the line $3x + 4y - 12 = 0$

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88. Find the slope,x-intercept and y-intercept of the following lines.

$4x - 3y = 6$

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89. Reduce the following equation into slope intercept from and find their intercepts on the axes. $3y + 2 = 0$

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90. Reduce of the following equation into normal from. Find their perpendicular distance from the origin and angle between perpendicular and the positive x-axis. $x - \sqrt{3}y + 8 = 0$

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91. Reduce the following equation into normal from. Find their perpendicular distance from

the origin and angle between perpendicular and the positive x-axis.$y - 2 = 0$

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92. Reduce the following equation into normal form. Find their perpendicular distance from the origin and angle between perpendicular and the positive x-axis.$x - y = 4$

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93. Find the distance of the point (-1,1) from the line 12(x + 6) = 5 (y - 2)

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94. Find the points on the x-axis, whose distance from the line $\frac{x}{3} + \frac{y}{4} = 1$ are 4 units.

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95. Find the distance between the parallel lines $15x + 8y - 34 = 0$ and $15x + 8y + 31 = 0$

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96. Find the distance between the parallel lines $l(x + y) + p = 0$ and $l(x + y) - r = 0$

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97. Find the equation of the line parallel to the line $3x - 4y + 2 = 0$ and passing through the point (-2,3).

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98. Find the equation of the line perpendicular to the line $x - 7y + 5 = 0$ and having x-intercept 3.

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99. Find angles between the lines $\sqrt{3}x + y = 1$ and $x + \sqrt{3}y = 1$

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100. The line through the points (h,3) and (4,1) intersects the line 7x - 9y - 19 = 0 at right angle. find the value of h.

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101. Prove that the line through the point (x_1, y_1) and parallel to the line Ax + By + C = 0 is $A(x - x_1) + B(y - y_1) = 0$

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102. Two lines passing through the point(2,3) intersect each other at an angle of 60°. If slope of one line is 2, find equation of the other line.

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103. Find the equation of the right bisector of the line segment joining the points (3,4)and (-1,2)

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104. Find the co-ordinates of the foot at the perpendicular from the point (-1,3) to the line $3x - 4y - 16 = 0$

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105. The perpendicular from the origin to a line y = mx + c meets it at the point (-1,2).Find the values of m and c.

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106. If p and q are the lenghts of the perpendiculars from the origin to the lines $x\cos\theta - y\sin\theta = k\cos 2\theta$ and $x\sec\theta + y\cos ec\theta = k$ respectively prove that $p^2 + 4q^2 = k^2$

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107. In the triangle ABC with vertices A (2,3), B (4, -1) and C (1,2), find the equation and length of altitude from the vertex A.

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108. Consider a line with equation $x - \sqrt{3}y + 4 = 0$ Reduce the given equation into slope-intercept form and find the slope and y - intercept of the line

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109. Consider a line with equation $x - \sqrt{3}y + 4 = 0$ Reduce the given equation into slope-intercept form and find the slope and y - intercept of the line

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110. Consider a line with equation $x - \sqrt{3}y + 4 = 0$ Reduce the given equation

into normal form and find the length of the perpendicular from the origin on the line and the angle made by this perpendicular with the x- axis.

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111. Find the length of the perpendicular from the origin to the line $2x - y + 3 = 0$

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112. Find the lenght of the perpendicular from the origin to the line $x - 4y - 7 = 0$

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113. Which of the above lines is farther from the origin ?

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114. Consider the points A (2,4) and B (3,-1) By two point form find the equation of the line AB. Hence find the x - intercept and y-intercept of the line AB.

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115. Complete the following table

Equation of a line	Slope of the line	y – intercept of the line	x – intercept of the line
$2x+3y-6=0$	-----	-----	-----
$3x-2y-1=0$	-----	-----	-----
$4x+6y+1=0$	-----	-----	-----
$-3x+4y-4=0$	-----	-----	-----

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116. Prove that $2x + 3y - 6 = 0$ and $3x - 2y - 1 = 0$ are perpendicular

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117. Prove that $2x + 3y - 6 = 0$ and $4x + 6y + 1 = 0$ are parallel

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118. Suppose a line cuts off intercept 4 on the x-axis and the line makes angle 60° with the positive direction of the x-axis. Find the co-ordinates of a point on the line

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119. Suppose a line cuts off intercept 4 on the x-axis and the line makes angle 60° with the positive direction of the x-axis. Find the slope of the line. Hence find the equation of the line.

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120. Consider a triangle ABC with vertics A (2,5),B (-4,9) and C (-2,-1) Find the co-ordinates of the mid points of AB,BC and AC


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121. Consider a triangle ABC with vertics A (2,5),B (-4,9) and C (-2,-1) Find the equations of the medians of the triangle


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122. Consider the points A (1,2) and B (2,3)

Let P and Q be the points of trisection of the segment joining A and B Find the co-ordinates of P and Q

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123. Consider the points A (1,2) and B (2,3)

Let P and Q be the points of trisection of the segment joining A and B Find the equation of

the line passing through P and perpendicular to AB

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124. Consider the points A (1,2) and B (2,3)

Let P and Q be the points of trisection of the segment joining A and B Find the equation of the line passing through Q and perpendicular to AB

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125. What is the distance of the point (h,k) from the line 9x + 40y + 21 = 0?

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126. If (h,k) lies on $9x + 40y - 20 = 0$, what is the value of $9h + 40k$?

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127. Find the distance between the parallel lines $9x + 40y + 21 = 0$ and $9x + 40y - 20 = 0$.

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128. Let A (5,2), B (3,-3) and C (-4,3) be the vertices of a Δ ABC. Find the equation of BC

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129. Let A (5,2), B (3,-3) and C (-4,3) be the vertices of a Δ ABC Find the length of the altitude from A to BC

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130. Suppose that the line $x - 2y + 3 = 0$ is rotated through a right angle about its point intersection with the line $3x + y + 2 = 0$ Find the slope of the line in the new position

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131. Suppose that the line $x - 2y + 3 = 0$ is rotated through a right angle about its point intersection with the line $3x + y + 2 = 0$ Find the slope of the line in the new position

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132. Consider the points A (5,1) ,B (1,-1) and C (11,4) Raju proved A,B,C are collinear by finding the equation of AB. write the steps written by Raju.

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133. Consider the points A (5,1) ,B (1,-1) and C (11,4) Saji proved A,B and C are collinear by using slope. Write the steps written by Saji.

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134. Consider the points A (5,1) ,B (1,-1) and C (11,4) Ram proved A,B,C are collinear by using

distance formula. Write the steps written by Ram

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135. Consider the points A (5,1) ,B (1,-1) and C (11,4) Neelima proved A,B,C are collinear by using area of ABC. Write the steps written by Neelima.

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136. Complete the following table

mple 2. (i) Complete the following table

Equation of the line	Slope of the line	y–intercept of the line	x– intercept of the line	Length of the perpendicular from the origin on the line
$3x+2y-12=0$	...	...	...	...
$3x-4y+5=0$	...	...	...	...

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137. Reduce the lines 3x - 4y + 4 = 0 and 4x - 3y + 12 = 0 to the normal form and hence determine which line is nearer to the origin.

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138. A stright line has equation 6x - 4y + 9 = 0.....(1) Write down is slope Find the slope of lines parallel and perpendicular to (1)

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139. A straight line has equation 6x - 4y + 9 = 0.....(1) Write down its slope, Write down the equation of the lines trough (1,2), parallel and perpendicular to (1)

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140. Find the point of inersection of the straight line $\frac{x}{a} + \frac{y}{b} = 1$ and $\frac{x}{b} + \frac{y}{a} = 1$

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141. Consider a triangle whose sides are y = x, y = 2x and y = 3x + 4 Find the co-ordinates of the vertices of the triangle.

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142. Consider a triangle whose sides are $y = x$, $y = 2x$ and $y = 3x + 4$ Find the centroid of the triangle.

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143. Consider a triangle whose sides are $y = x$, $y = 2x$ and $y = 3x + 4$ Find the area of the triangle.

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144. Find the values of k for which the line (k-3) x - $\left(4-k^2\right)$ y + k^2 - 7k + 6 = 0 is parallel to the x-axis

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145. Find the values of k for which the line $(k-3)x-\left(4-k^2\right)y+k^2-7k+6=0$ is parallel to the y-axis

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146. Find the values of k for which the line $(k-3)x-\left(4-k^2\right)y+k^2-7k+6=0$ is passing through the origin

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147. Find the values of θ and p, if the equation $x\cos\theta+y\sin\theta=p$ is the normal form of $\sqrt{3}x+y+2=0$

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148. Find the equation of the lines, which cuts off intercepts on the axes whose sum and product are 1 and - 6 respectively.

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149. What are the points on the y-axis whose distance from the line $\frac{x}{3}+\frac{y}{4}=1$ is 4 units.

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150. Find perpendicular distance from the origin of the line joining the points $(\cos\theta, \sin\theta)$ and $(\cos\phi, \sin\phi)$

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151. Find the equation of the line parallel to y-axes and drawn through the point of intersection of the lines x- 7y + 5 = 0 and 3x + y = 0

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152. Find the equation of a line drawn perpendicular to the line $\frac{x}{4}+\frac{y}{6}=1$ through the point where it meets the y-axis.

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153. Find the area of the triangle formed by the lines y- x = 0, x + y = 0 and x -k = 0

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154. Find the value of p so that the three lines $3x + y - 2 = 0$, $px + 2y - 3 = 0$ and $2x - y - 3 = 0$ may intersect at a point.

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155. If three lines whose equations are $y = m_1x + c_1, y = m_2x + c_2$ and $y = m_3x + c_3$ are concurrent, then show that $m_1(c_2 - c_3) + m_2(c_3 - c_2) + m_3(c_1 - c_2) = 0$

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156. Find the equation of the lines through (3,2) which makes an angle 45° with the line x - 2y = 3

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157. Find the equation of the line passing trough the point of intersection of the lines 4x + 7y - 3 = 0 and 2x - 3y + 1 = 0 that the equal intercepts on the axis.

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158. Show that the equation of the line passing through the origin and making an angle θ with the line $y = mx + c$ is $\frac{y}{x} = \frac{m + \tan\theta}{1 - m\tan\theta}$ or $\frac{y}{x} = \frac{m - \tan\theta}{1 + m\tan\theta}$

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159. In what ratio the line joining (-1,1) and (5,7) is divided by the line x + y = 4 ?

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160. Find the distance of the line $4x + 7y + 5 = 0$ from the point (1,2) along the line $2x-y = 0$

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161. The hypotenuse of a right angled triangle has its ends at the points (1,3) and (-4,1). Find the equation of the legs (perpendicular sides) of the triangle.

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162. Find the image of the point (3,8) with respect to the line x + 3y = 7 assuming the line to be a plane mirror.

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163. If the lines $y = 3x + 1$ and $2y = x + 3$ are equally inclined to the line $y = mx + 4\left(\frac{1}{2} < m < 3\right)$ then the values of m are

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164. If the sum for the perpendicular distance of variable point P (x,y) from the lines $x + y - 5 = 0$ and $3x - 2y + 7 = 0$ is always 10. show that P must move on a line.

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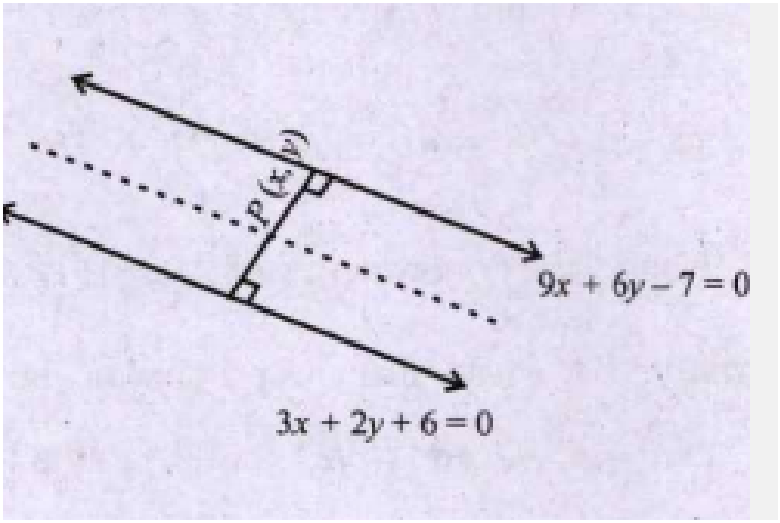
165. Find the equation of the line which is equidistant from the parallel lines

$9x + 6y - 7 = 0$ and $3x + 2y + 6 = 0$



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166. A ray of light passing through the point (1,2) reflects on x-axis at the point A and the reflected ray passes through the point (5,3). Find the co-ordinates of A.

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167. A person standing at the junction (crossing) of two straight point repersented by the equation $2x - 3y + 4 = 0$ and $3x + 4y - 5 = 0$ wants to reach the path whose equation is $6x - 7y + 8 = 0$ in the least time. Find the equation of the path that he should follow.

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