

STRAIGHT LINE

1. Find the slope of a line passing through points (2,9) and (9,23)
2. Find the slope of a line $6x+3y+7=0$
3. If (1,2), (3,4), (9,7) are collinear points, find a.
4. Find slope of line which makes 30° with +ve direction of x-axis
5. If lines $2x-y=3$ and $ax+by=q$ are parallel then find the Value of $4b^2+a^2+4ab$
6. Find the distance b/w $3x-4y=5$ and $3x-4y+5=0$
7. Find the distance of Point (1,2) from the line $7x+4y = 5$
8. If \perp distance of (2,k) from the line $x+y = 2$ is 5 units.
9. If (2,3) lies on the line $ax+y=6$, then find the value of $3-2a$.
10. Find y-intercept of the line $xn-3y+15=0$
11. Find the sum of x-intercept and y-intercept of the line.
 $x/2 + y/4 = 3$.
12. Find the angle b/w $y - \sqrt{3}x = 1$, $\sqrt{3}y - x = 5$
13. Find the obtuse angle b/w the lines $x-y = 0$ and $x=0$
14. If the line $6x-y + 2 + k(2x+3y+13) = 0$ is Parallel to x-axis then find k.
15. Find the equation of line passing through (3,3) and \perp to $x-y = 4$
16. Find equation of line passing through (2,2) and \parallel to $xy=5$
