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Formula Sheet. Straight Line.

- * 5hift of originsx= X+h, y= Y+k i.e. X=h-x, Y=y-k
- · Slope of Line:
 - 1) X-axis m=tan 0°=0 Y-axis m=ton 90°= 0
 - 2) m, m2 parallel line then m=m2
 - 3) m, m2 perpendicular line then m, m2=-1.
 - 4) Slope of Line passing through points $(x, y_1)(x_2y_2)$ is $\frac{Y_2-Y_1}{X_2-X_1}$, $x_1 \neq x_2$.
- · Equation of straight Line in Standard form:

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Form	Description	Equation	
i) Standard	Egn of X-axis	y=0	
	Ean of Y-axis	X=0	
	Parallel to X-axis	y=tb	
	Parallel to Y-axis	x=+ a.	
ii) Slope-point	Point (X,Y), Slope = m	Y-Y,=m(x-x,)	
iii Two-point	Two point (X, Y,). (X, Y,)	Y-Y1 = X-X1	
	Tolomote	Y: Y2 X1-X2	
ix) Slope intercept	slope = m intercept c on Y-axis	Y= mx+c	
n Double intercep	Non-zero intercept a and b	x + y = 1.	
	on x and Y-axis	аь	
vi) Normal.	Length of 1 ter from origin = P.	xcosa +ysina=p	
(1100-41	angle & with x-axis	restriction of	
vid Parametric	Pass through (X,Y), angle & +ve X-axis	X-X1 = Y-Y1 = 7	
		coso sino	