



Topics to be covered

Rectangul hyperbola, Parabola, circle.



mp -> Chhoo-kar mere man Ko, Tune Kiya Kya ishara ??

MR to Graph - Chhoo-Kar Tere man Ko

Maine Kiya slope Ka

3

toma = m M= tano

tand = so

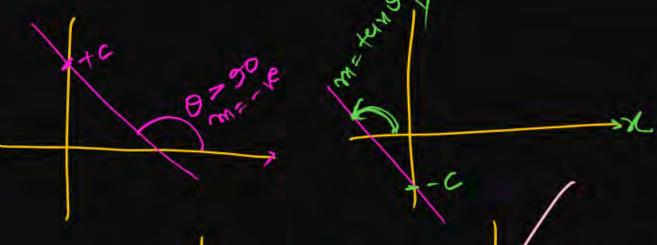


Recap of previous lecture



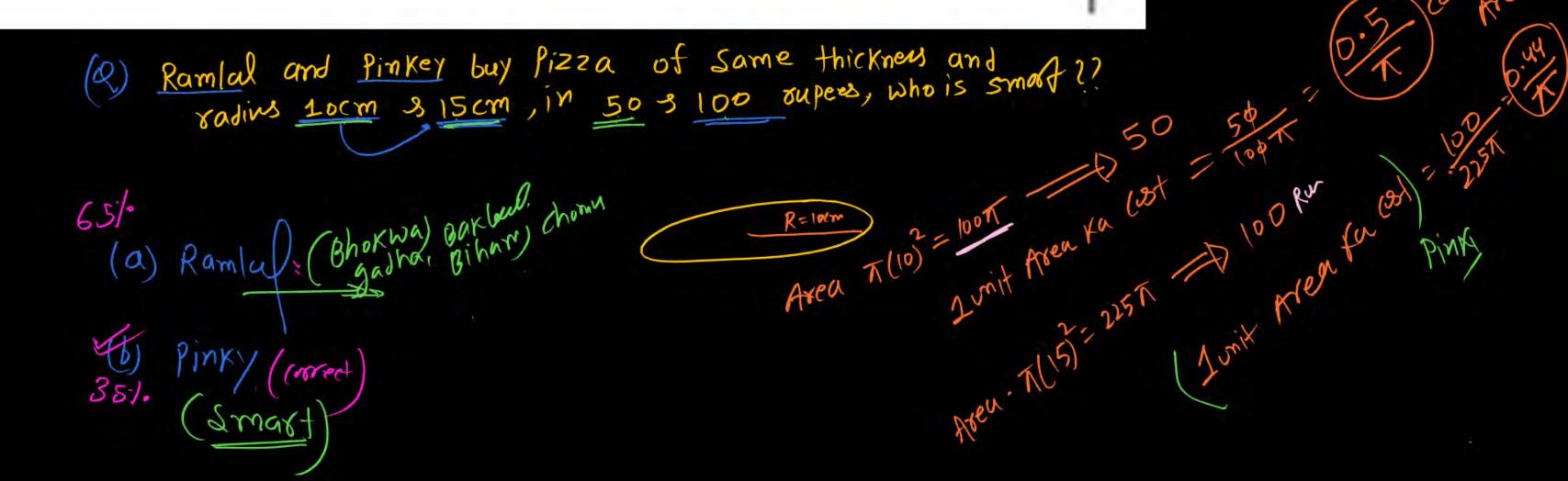
Straight line

- # Straight line Ka ex hi mara slope and Intercept fixed no hamara.
- # straight line ne bola -> Tum muje mera m 3 c de do mai tumbe # m= tand -> 0 = Angle b/w +ve n-axrs 8 graph in
 Anti-class disi
- Lam=slope
- C= y interrept = value of y when x=0



1 m = tre (0 200)

19. Ramlal and Pinky buy pizza of same thickness and radius 10 cm and 15 cm respectively in 50 and 100 rupees who is smatter?

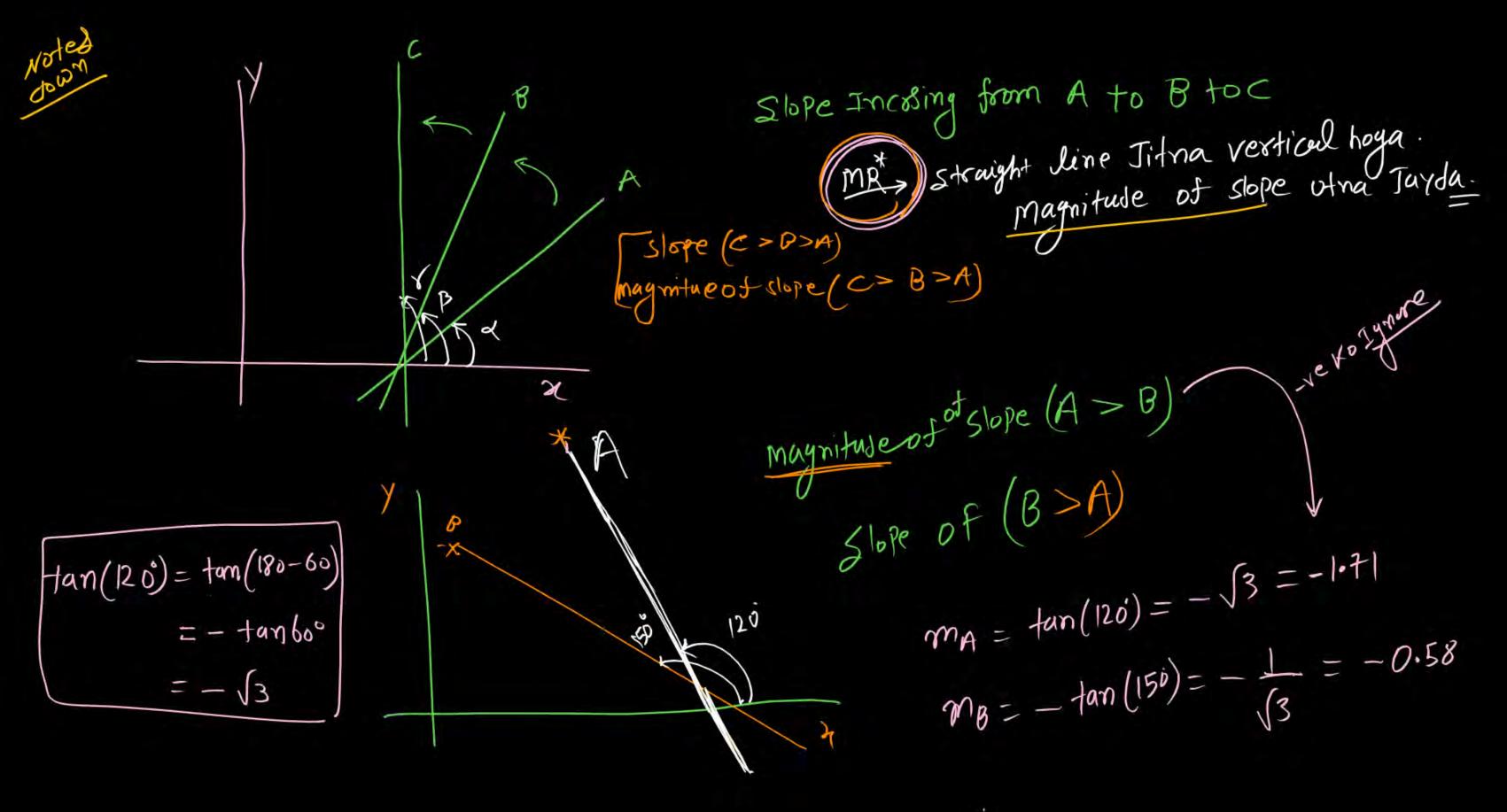


Mumber System

Incord

Incord

Thirdell El



. .

Draw Graph 3/10 spring force & elongation, (K=1) (NEET) # F=- KX given had J= rox+C F = - KX + O (=0 m=-K m=-1 = tan0 1350 D=1350

Question





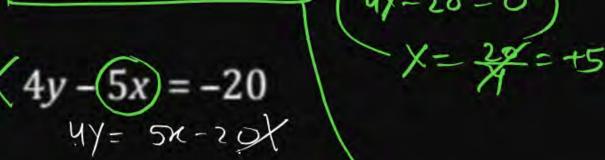
Find equation of the line which makes intercept +4 and 5 on the x and y-axis. *epstivi-

$$\int_{0}^{\infty} 5x + 4y + 20 = 0 \quad (0 + 4y + 20 = 0)$$

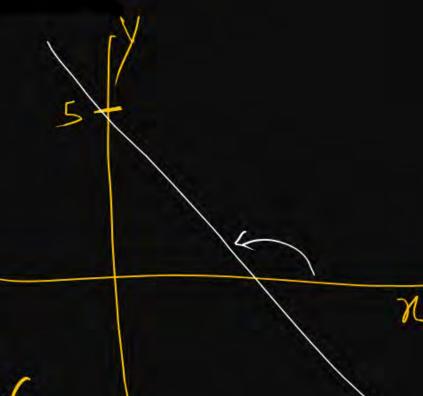
$$\begin{pmatrix} x - 1 \\ y = 0 \end{pmatrix}$$

Evalue of yad n=0

$$2\sqrt{4y+5\times-20}=0$$







$$4x + 5y + 20 = 0$$

$$4/y = -5x + 20$$
 $y = -5x + 20$
 $y = -5x + (5)$

F=Force(N) find value of force V=mn+C F= mt,+C = mx+C f=mt+C tano=3 =m

1

tind velocity of obJect at /= mx+c $V_{t=3sec} = -4(3) + 20$ = +8 cm/1 // Slop = tano = - tan 2 = -4

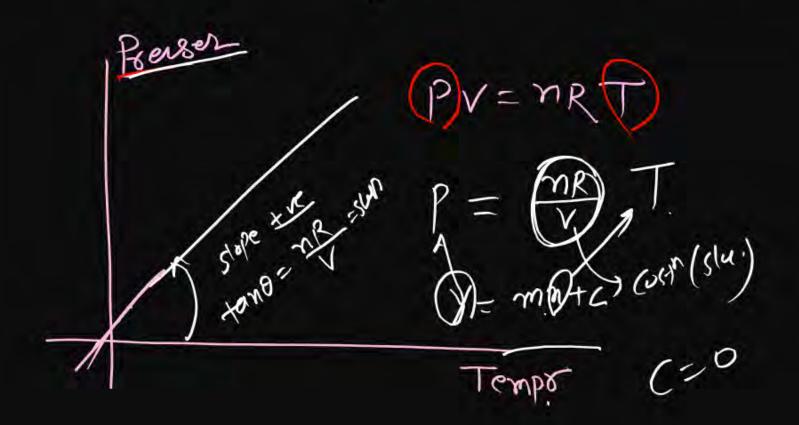
K-273 using this relation fhem JEE Main (2025) Graph Dryw X-273 100 100 K (ic)

Question

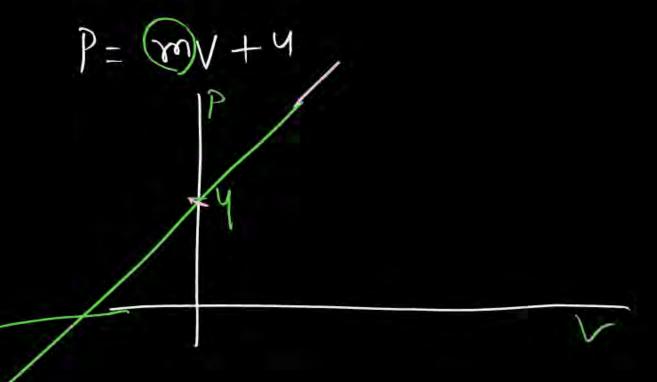


$$\neq$$
 PV = nRT

Draw graph between pressure temptation for constant volume.



P=mV Slope=mene=tre



Question

Mot for all the

Draw graph between stopping potential V_0 and energy of photon for given equation $E = \phi + eV_0$.

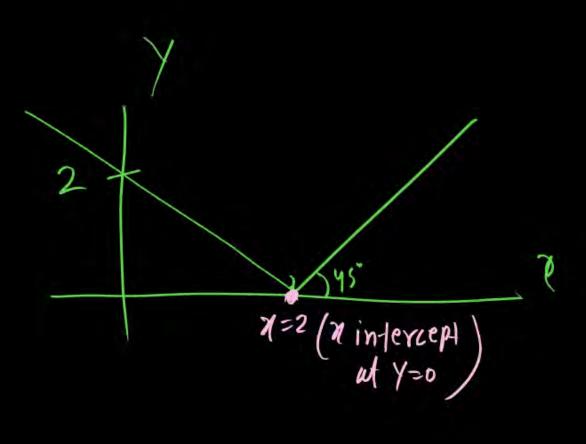
> y can't be -ve for /x /= /x/ step-2 y Ke-ve value Ko mod lage Ke tve le 10 -> M-axis Ko > Step: 1 - mod Ko remove Karos Draw graph mirro man Kar y Ke -ve value to Imge Y= x (Y= mx+c) bra lo

. .

Draw graph B/W / SX Ster 1 Mod hada Ke grash m = -1 = tana

7

 $/=|\chi-2|$ > 9fx=0 Draw graph y 8 of Soln Step-1 remove mod & Draw grap Y= x-2 D=45. 1.1.1111



Y = |0-2| = [-2] = +2

$$(x+4)+(y-3)+5=0$$

$$\lambda = mx + C$$

$$\lambda = -x - 2$$

stowight line



Yex of (directly proportional) Lines dependency

Rectangular hyperbora

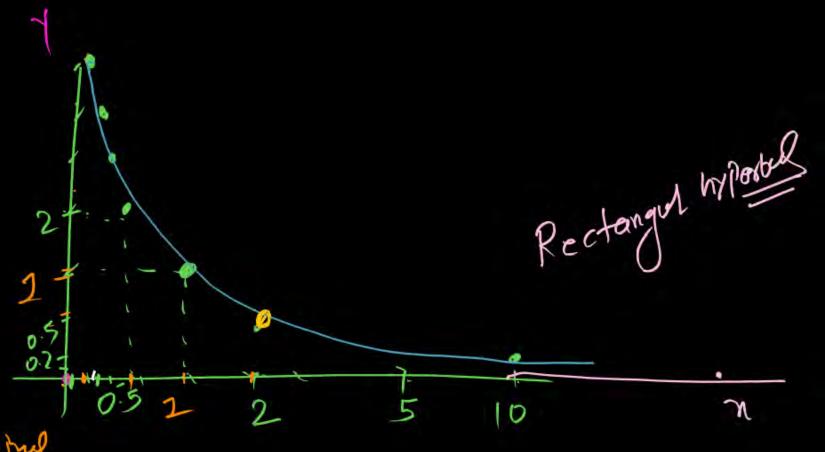
oc infinite

Step-1 Put diffrent value
ofx(Exx=1,0,5,2)
g find 1 at that

Step-3 -> connect all (ordinate with (urev / Line

$$\gamma = \frac{1}{0.01} = \frac{1}{2} = 100$$

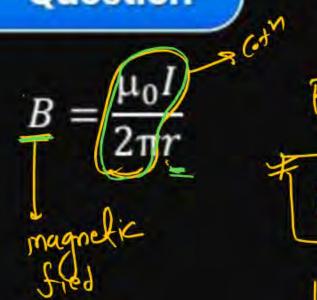
$$y = \frac{1}{0.1} = \frac{1}{20} = 10$$

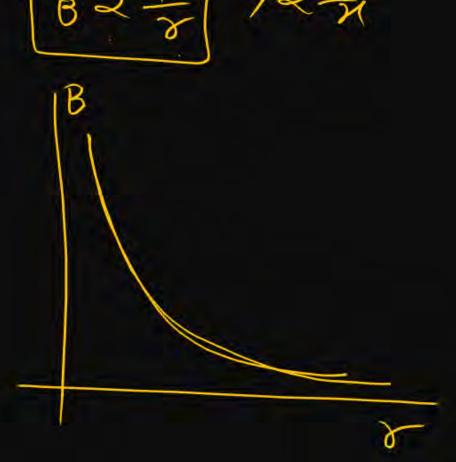


100 0.01 10 0.1 2 0.5 1 5 0-2 5

0

traw graph B/W B & 8







de-Broylice wavelenge & momentum h=(0+2 > (house ou) .P (Moment)

[NEET-2024]

all graph here are like Rectangul hyper bola

Y=1x

Str= 1 then y= 1 in both equal

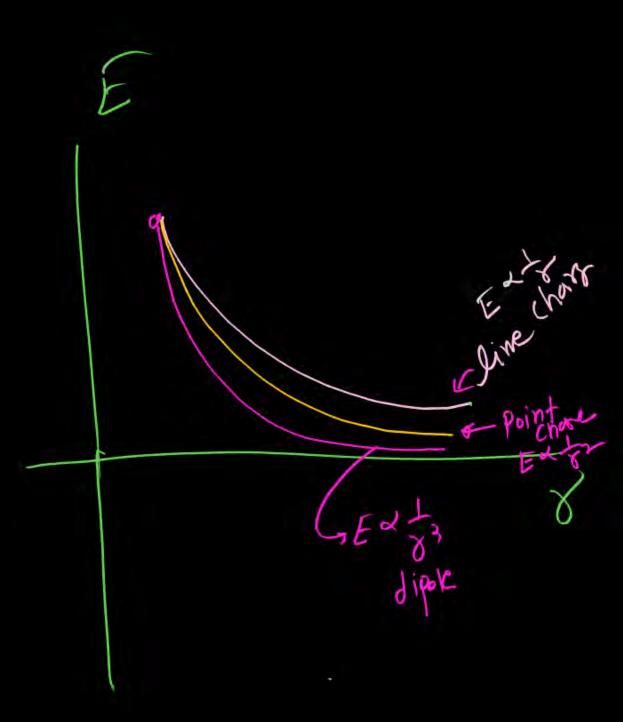
, k

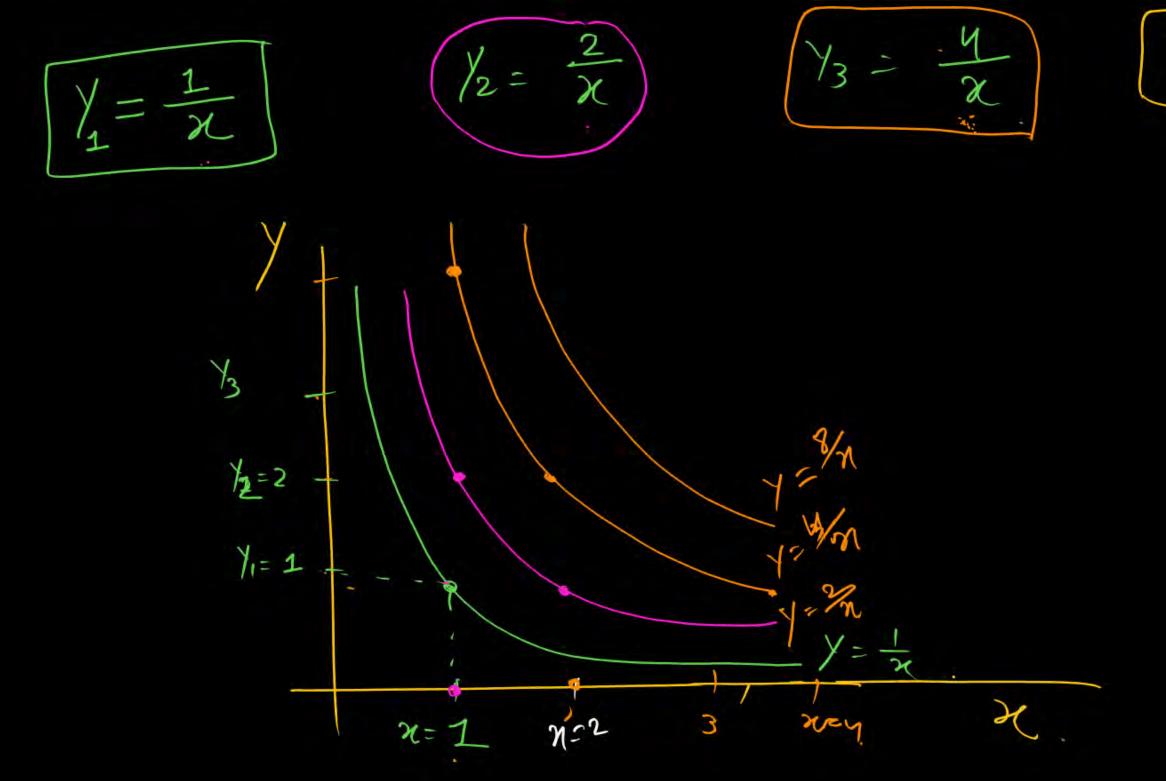
$$E_{\text{point char}} = \frac{KQ}{\chi^2} \implies E < \frac{1}{\chi^2}$$

$$E_{\text{diopte}} = \frac{2KP}{\chi^3} \implies E < \frac{1}{\chi^3}$$

$$E_{\text{dine chape}} = \frac{2K\lambda}{\chi^3} \implies E < \frac{1}{\chi^3}$$

JEE Ah.





. 1

hermodynamich gsothermal procend Tempr (ost PV= MRTI Cot Not for and study study with study will study thermodynamy

PV= (nRT.) t3 5T2 5T1

of up ward opening parabala Parabola Positive for any value of x.

.

-

Concept of slope

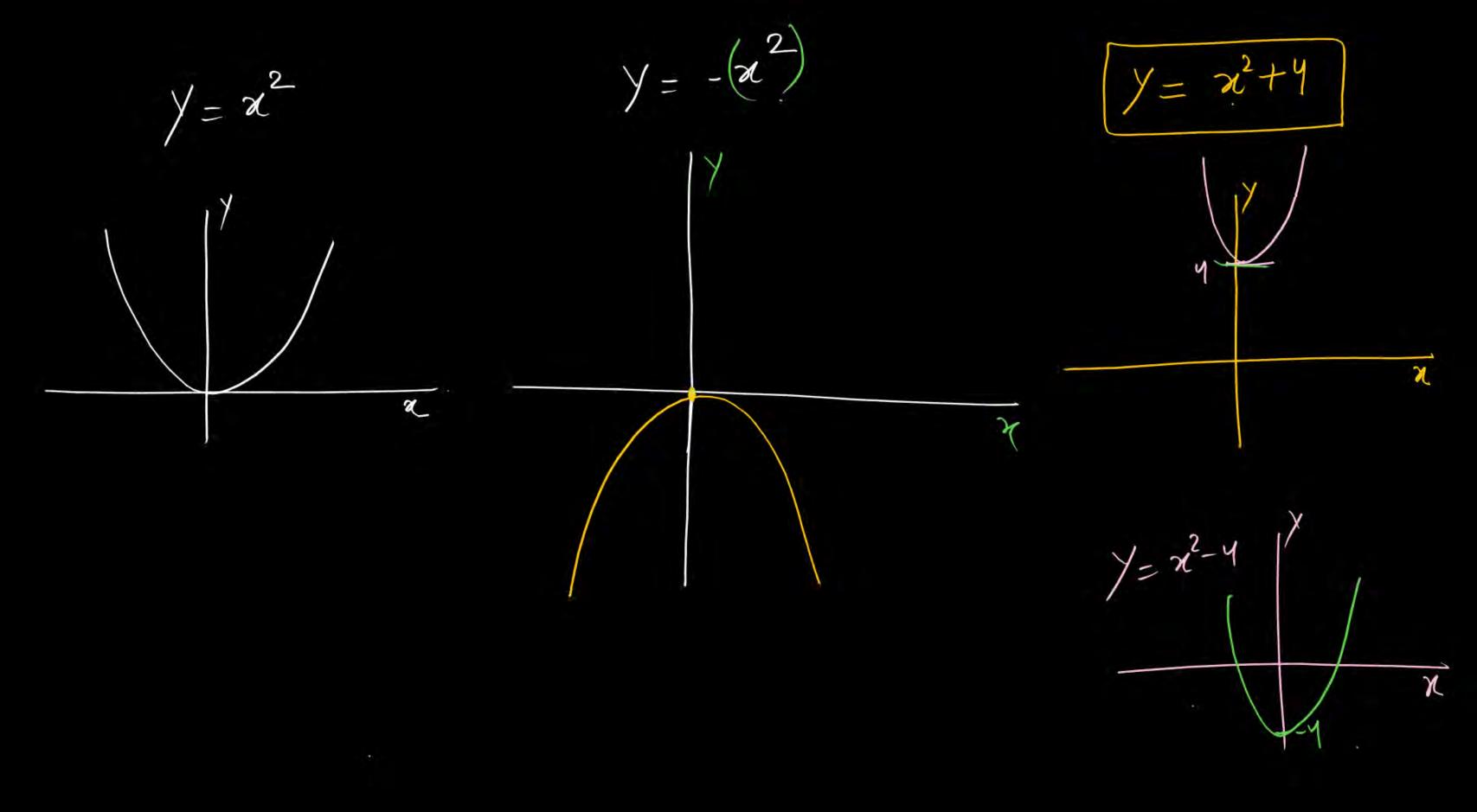
egn of storight line

fiffy M. S.t. of

$$\frac{dy}{dx} = \frac{d(mx+c)}{dx}$$

$$\frac{dn^2}{dn} = 2 n^{2-1}$$

$$\frac{dx}{dx} = \frac{1}{2}x$$



/= Jac

V4 = +2 Ex +1/2

-



