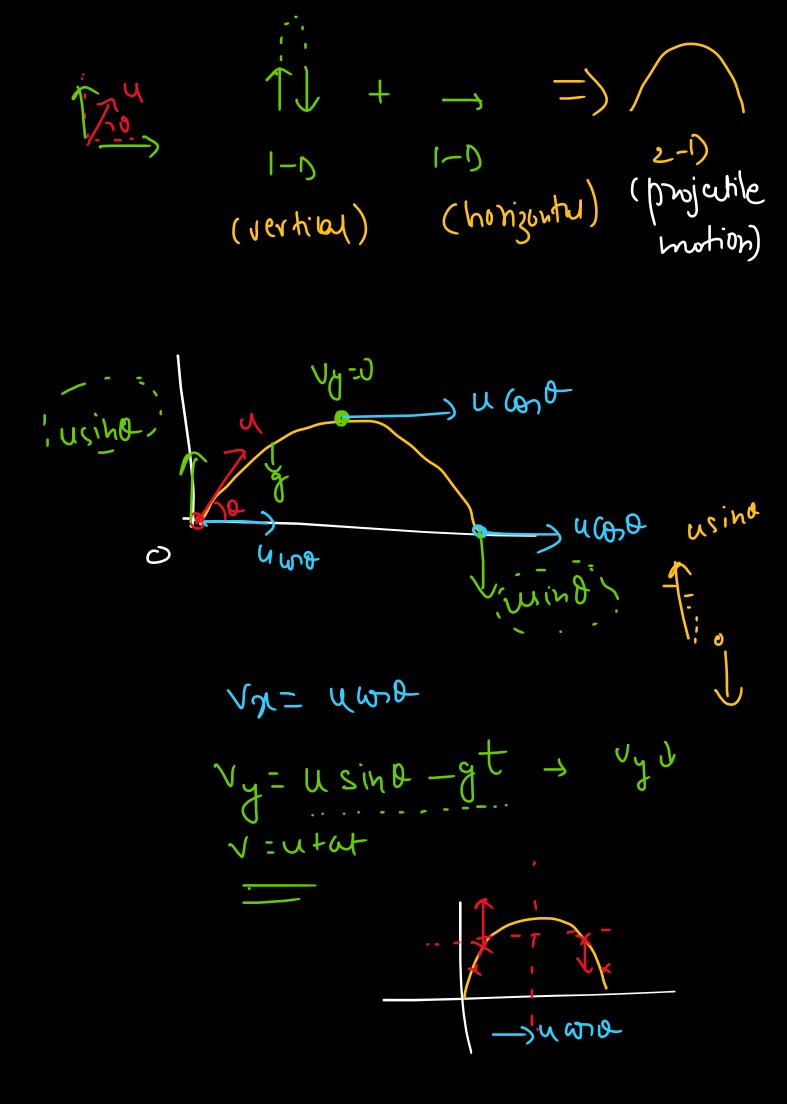
Projectile:
Les object released in space with some initial velocity L) effect of gravity Projectile motion: 2-Donotion Les construited to more in plane Journsolic path motion: projette y=mate) < { } y=mxte of line=party

れからこしい オニーイM



1. Egn of path of projectile

usina - uwo

posh of particle

is p(n,y)

g= horiz dist g= vertical dist

Horizouty

no-0, un=ulord

an=0

2= of umot+o

vertical

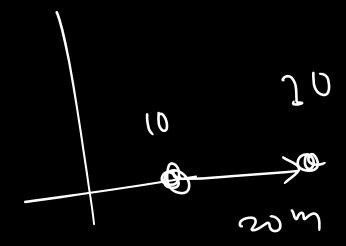
y= yot uyt + Layt 2 yo= 0, uy= usind az= g

y = 0+ usinot - 1g t?

record

t- umo

JJ= usinot -[gt2



$$\Delta x = 20m$$

$$\Delta = 30$$

$$10 + 20 = 30$$

$$y = f(\sin \theta) \left(\frac{1}{2}\cos^2 \theta\right) - \frac{1}{2}g^2 \frac{1}{2}\cos^2 \theta$$

$$y = g(\cos \theta) - \frac{1}{2}g^2 \frac{1}{2}\sin^2 \theta$$

$$y = g(\cos \theta) - \frac{1}{2}g^2 \frac{$$

Q. A body projected with relaity some in a dir making an angle so with horizontal. Det (i) post after 0.55 (ii) relouity after 0.55 0=600 3000 A-m horizonth un = uw u = nox! Serticel Uy = USIND FLOX J -1053 g = - g a-20

$$7 = 4 \cdot 31 \cdot 1 = 1 \cdot 25$$

$$-10 \cdot 13 \cdot 1 = 1 \cdot 25$$

$$-10 \cdot 13 \cdot 1 = 1 \cdot 25$$

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$$-10 \cdot 13 \cdot 1 = 1 \cdot 25$$

- 7.4

V2 - U WB - 10

νη- μsina-gt- 10√3- 10×1 - 10×1-332-5 - 17.32-5

T 12.32

Vary yo =