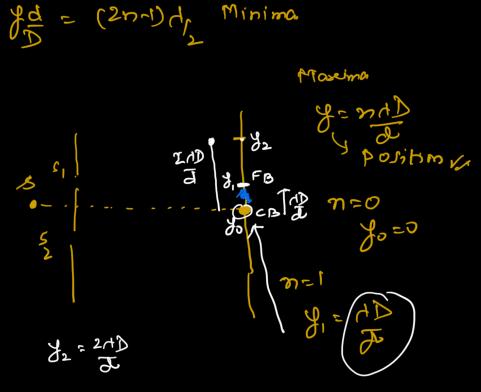
/d = (2n-1) dy Minima.



n = 2

Position of Bark fringes

\$\frac{1}{2} = (2nn) ds\_2

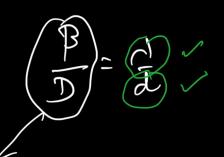
 $f = \frac{(2n-1)AD}{2d}$   $f = \frac{(2x-1)AD}{2d}$ 

 $\beta_1 = \left(\frac{2}{\sqrt{2}}\right)$ 

Fringe WION

Seprotion between two consecutive bright or dook fringe is known as bringe width.

B → Fringe width.



Angular brige width.

prom youple

$$\frac{\mathcal{I}_{1}}{\mathcal{I}_{2}} = \frac{\omega_{1}}{\omega_{2}} = \frac{\alpha_{1}}{\alpha_{2}}$$

zwon & [win [0140])

Supit To reolize good Suterferne fothern on screan

Prove trout sherferenu poneigu.

$$\frac{1}{2} a_1 = \frac{1}{2} a_1 + a_2$$

$$\frac{1}{2} a_1 + a_2$$

$$\frac{1}{2} a_2 = a_1 + a_2$$

$$\begin{array}{ccc}
\boxed{I} = I_1 + I_2 & \text{Algebra} \\
= q^2 + a^2
\end{array}$$

Ony ai ~ az to realize good Interference fattern on screen?

Cer 
$$a_1 = 49a$$
 $a_2 = a$ 

(le 2-

CORE 
$$a_1 = a$$
  $a_2 = a$ 

Lesson =  $(a+a)^2 = 4a^2$ 

Lesson =  $(a-a)^2 = 0$ 

J.1.37 to slavize gniteference possession? X = Q cos wt - J 82 = @ 601 (wt+p) -11/3 -Total algebric we will go ahead with Now Vector addition. ンターダーナ Cosct cos D = 1 cm (+D (mm (+D) E a cormt + a cor (wt+p) of = to cox without to cos [wt-wt-op) 8 = 2 a cos (wt + 1/2) cos of (MEDO) Cos (-P) g = (20 cos 0) cos (wt +0) - COSP y = (A cos (w++ 0) Resultry amplitude I ~ A<sup>2</sup> I ex (3 a Cos of)

AN8

了一年5月5250

( Cuity>

Condition for coinciding of the fringer:

B = 10

·s [----

Ba d VEBGYOR

Number of

Printo

Total space (X)

6155es

Smoller warkleyh (n+1)

 $u_{\beta} = (\omega_{+1})_{\beta}$ 

md = (m+1)ds

5 missing fringe Just opposite to the slit.

Form Cufference  $S_2P-S_1P$   $S_2P-S_1P$   $S_3$ 

$$D^{2}+d^{2}-D=ax$$

$$(2n-1)d_{1}$$

$$D^{2}+d^{2})^{1/2}-D=(2n-1)d_{2}$$

$$D^{2}+d^{2})^{1/2}-D=(2n-1)d_{2}$$

$$D^{2}+d^{2})^{1/2}-D=(2n-1)d_{2}$$

$$D^{2}+d^{2})^{1/2}-D=(2n-1)d_{2}$$

$$D^{2}+d^{2}-D=(2n-1)d_{2}$$

$$D^{2}+d^{2}-D=(2n-1)d_{$$

conat win happen to the Bringe width it entire offeredas i immerseed in liquid of seforetive index u.



