Robresher on Boyes and maximum Libelihood method.

[Air | world). P(world) = P(world | dil-a). 1 > (dal-a). Post-eior.
Libelihood.
Libelih Then P(wold [dd-a] = 12(dd-a] modd). (wodd)) (d d-a). Then waximum likelihood is proxy for real good which is maximum postrion.

Then for di-equired p(y:10) = For e Len L(3/2) - [[p(y:12) and lu 2(3(2) = - 22 (0:-1:(2))? t ... V ... Coy assumption d T; = r. Then solul Then world is j; = w=: +c => 0x; => 2[y:-(u=:+c)]=0 $=> \langle y \rangle - \langle w \langle z \rangle + c \rangle = 0$ m (x) + c - 2y7 = 0. equalists leane Then Iwo $W \leq x^{7} + C \leq x - \langle xy \rangle = 0$. $= \frac{\langle xy \rangle - \langle xy \rangle}{\langle x^2 \rangle - \langle x \rangle^2} = \frac{\langle x^2 \rangle \langle y \rangle - \langle x \rangle \langle y \rangle}{\langle x^2 \rangle - \langle x \rangle^2} = \frac{\langle x^2 \rangle \langle y \rangle - \langle x \rangle \langle y \rangle}{\langle x^2 \rangle - \langle x \rangle^2}$ N2 = \(\frac{2}{3}\left(\frac{1}{3}\right)^2\) Lenember that is world: ~ 2. 5.7. 2000 No => your world is poor.

2000 To all too longe. Na = ND D data. Evolude. cr. (say)00 = 10'. T, = JU.17-1 = 30 ×11-1 = 3 24.2 83.4 Fr8... Quedion 2. Cenaine afterist at a solution. w?- hsc? - by? = 0. BW- by= => w= => w^2 = le² + ~25². Compare this ho D? = p?+m2. Then $V = \frac{dc}{dk} = \frac{d}{dk} \mathcal{L}(k^7 + m^2) = \frac{k}{2(k^7 + m^2)}$ = V(&2-w2) V(&2-w2) = V(1-\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fra $\sqrt{(1-\frac{\pi^2}{5^2a^2})} = 2\sqrt{(1-\frac{4\pi^2}{5^2a^2})}$ $=) \left| -4 \right| = \left| \frac{6}{3} \right| + \frac{5}{6} \left| \frac{1}{3} \right|$ $= \frac{3^{2}}{12^{2}} = \frac{3^{2}}{2^{2}}$ $E = \frac{\sqrt{50}}{2}$ $\sqrt{5} \sim 2.2 i.c. <math>\sqrt{5}$ lightest mode never of served. Question 3. Explain conditions under which Frend dibration applia. $\frac{1}{\sqrt{2}} = \int L(\frac{1}{\sqrt{2}}) e^{ik(r+s)} dx dy$ Then ik(1,5) = ik(l(h? + (x-x)? - (Y-y)?) + ... = : le (12 N(1 - 2x = +27) + 2 = 22) + -... = -il X = 1/2 + ile = 1/2 /2 /2 Franklistr term. \$\langle \langle \lang But for Fresul $= \int L(s, y) e^{-\frac{1}{2}L(a+b+sc^2+y^2(\frac{a}{2a^2}+\frac{b}{2(2)})}.$ $\propto \int L(x,y) e^{i\frac{L}{2}} \cdot \frac{1}{2} \cdot (2^{1/2} \cdot y^2)$ Of course three integrals are segrandly. $\int \left((4,5) \cdot e^{\frac{1}{2R}} \cdot e^{\frac{1}{2R}} \right)$ Dinensiable n= 2/12 V-J/12 $\sqrt{\left(\frac{1}{2},\sqrt{2}\right)} = \sqrt{\frac{1}{2}} = \sqrt{\frac{1}{2}}$ Then $C(0) = \int_{0}^{\infty} \cos \frac{Ku^{2}}{2\pi} du$ $\int_{0}^{\infty} (u) = \int_{0}^{\infty} \sin \frac{Kv^{2}}{2\pi} dv$. for rundor comprehen. 20 X / K h(r).25r e 120 dr. Then has is top-lid- pundion @ v ... 2 x Leisr? 25 r dr all as required. The wordified Fresnel integral in this case is... VX Solver Keinsdr. Change ad variable for cose at normal incidence. of a fiven aundles. Then 12/2 = in5 =) r2 = n18 all as required. OUTER
So dearly odd n -> bright opot. In vert part of question me regled-orlliquity Nadar. n, = 9-025 1, = 400 nm N = 78 N2 = 5.15 1 = 700 nm. r = 2 Na=7, N=) ne 1 = 515.7 nm 26 = 401. 1 nm.