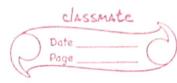
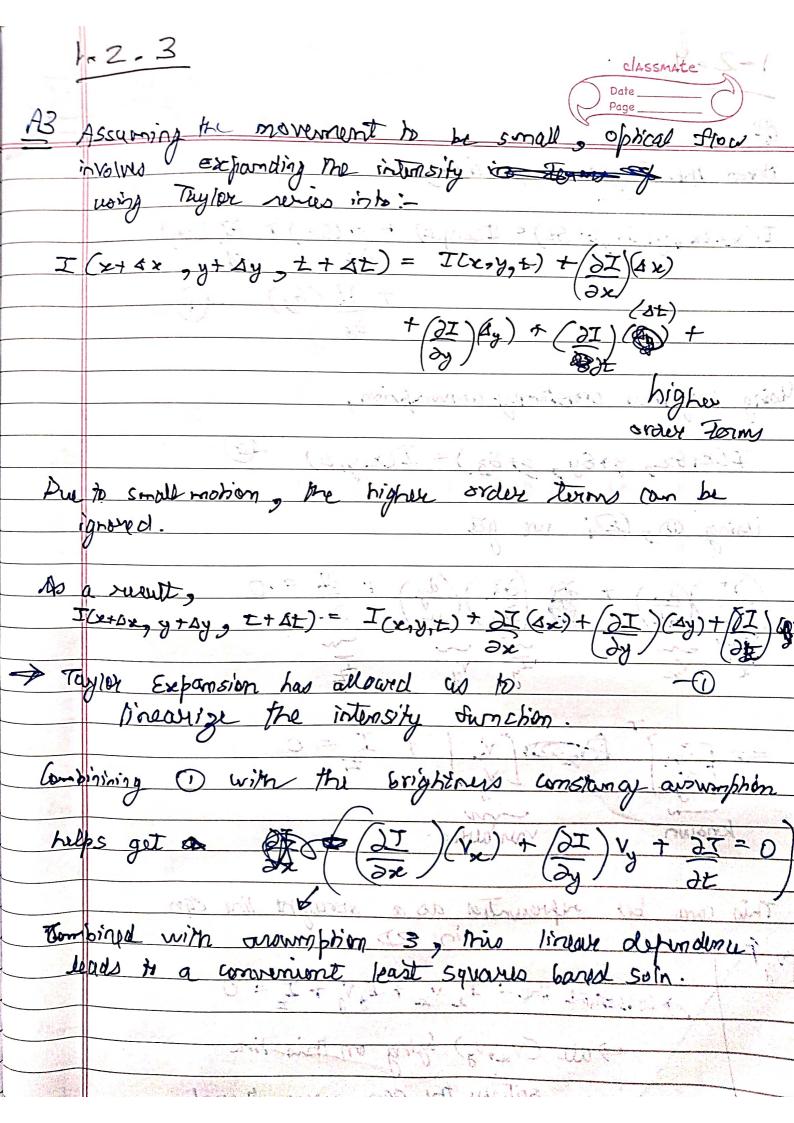
It I(x,y,t) be the brightness of post of fixel located at (x,y) on the image at the t' time. Assumption 1: Brightness of a point vernois constant over time. i.e. I(x+Sx,y+Sy, t+St) = I(x,y,t) where $\delta x = V_x St$ and $\delta y = V_y St$ velocity

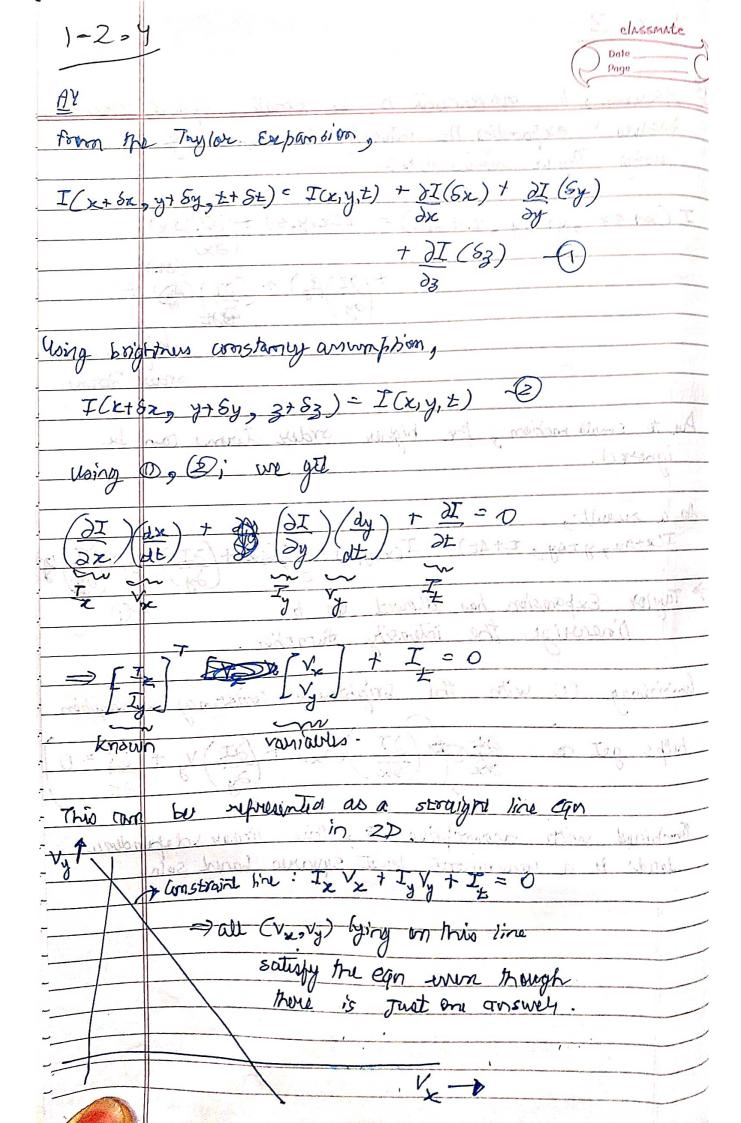
in v-direction

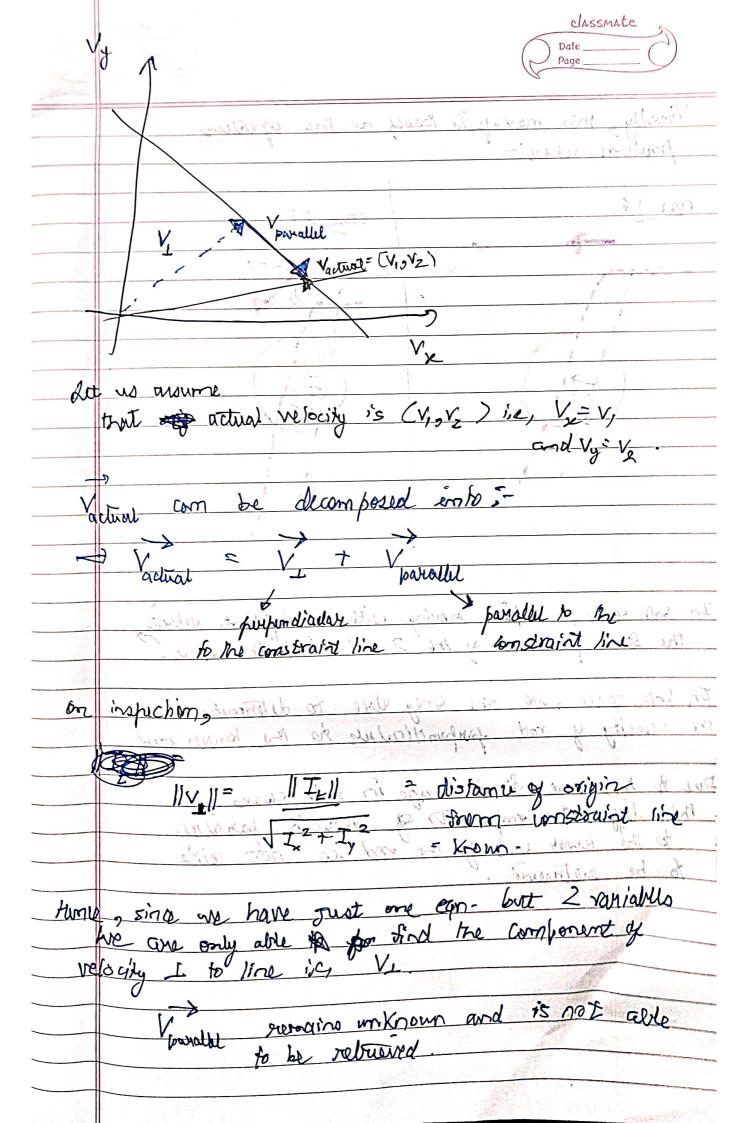
velocity v-direction Assumption 2: Displacement (Sx, Sy) and timestep St i are small,
[Thus, allowing us to apply Taylor expansion) I(118x, y+ Sy, t: +8t) = I(xy,t) +/27(8x)+/2
(2x)
(2x) Applied 1. A. J. S. Pow is bookly smooth and how reighbouring finels have the same clusplacement.



الأحدى		Date Page
v-n n-n	on leads to the Grandation of	natus Soln
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$- \leq I_{\times}I_{\pm}$ $- \leq I_{\downarrow}I_{\perp}$
	where the vest astimute for (vizy by	most malaix on 60/11 sides.
Also	contribution of gradients of distribution distribution of gradients of distribution of distribution distribution	Liv) elself, and pixels is
1 71	odelled as a gamsian worky is zy the antral pixely Them W(p, p) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	face away from
• 🔀	Induding reighboring pixels in color central pixel allows the bedraight are post central pixel is an outlier violates small motion assumption etc.	by be robust in
	violates small motion assumption etc.	







classmate Visually mis manyeals though as the aperture In sort cases of despite moving with a different velocity, the Sinal positions of the 2 rods look the same. In both cases, we we only elve to determine on velocity of rod prefrancicular to the lower end Due to be some sind Image in both cases

this definite components of verocity parallel

to he rower end of my not is not able

to be contrained