Phys 2110-4 1/30/13

Note Title 1/30/2013

SD Wallow

But first . --

Vectors

Direction, may nitude

Repril by GALDM

Dir o magnitude

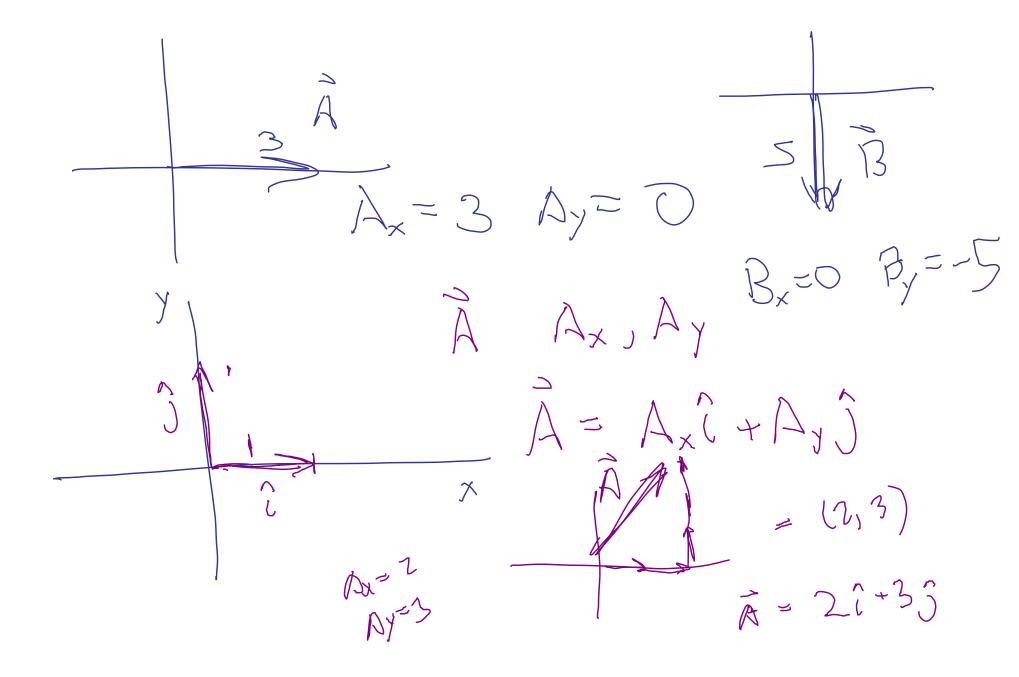
13 1 2 B

adding arrows Adding vectors

" Alding vectors graphically" Tell pe the magnitude Bx is neglative $A = \sqrt{A_X^2 + A_Y^2}$ $\mathcal{D} = + c_{m'} \left(A_{X} \right)$ can sive wion o O = tan-1 (Ax) + Brain

Add vectors, find components of vectors.
Add components separately.

 $C_X = A_X + B_X$ $C_{Y} = A_{Y} + B_{Y}$ & use this to find gir & wed B_X $\Rightarrow A_x, B_x \qquad A_y = 7 \cos 20$ $\Rightarrow A_y, B_y$ Find A+B $C_x = A_X + B_X$ $C_y = A_y + B_Y$

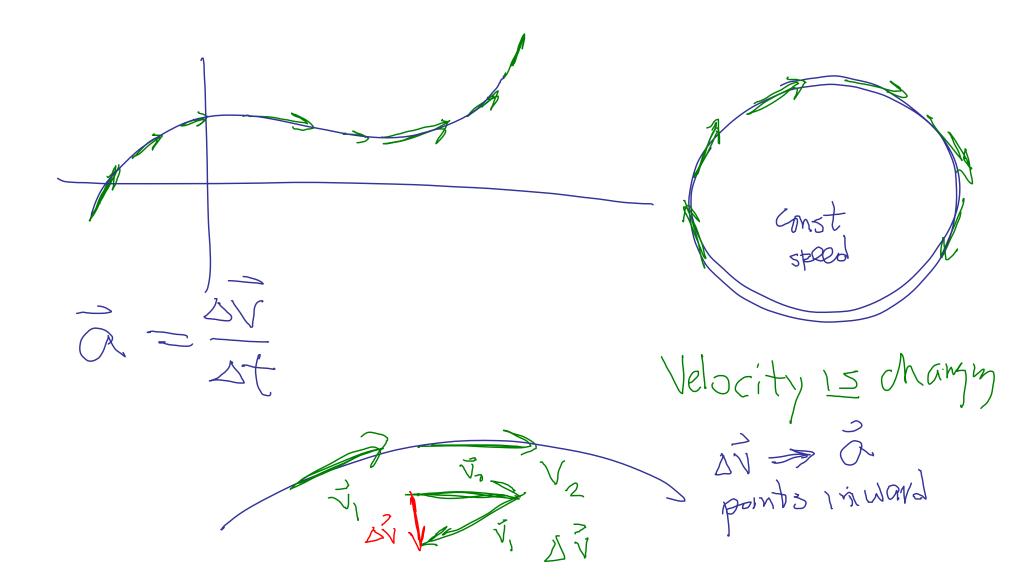


D.(10005) ON 5 しxjy)そ CIS ni noitan $\tilde{r} = \chi (+\chi)$

Coming Altractions Toot Product Cross Product デ=x[+y]+th

How repidly does
position charge? $\left(\frac{\Delta t}{\Delta t}\right) \left(\frac{\Delta t}{\Delta t}\right) \int_{0}^{\infty}$

Instantaneous velocity. > remany small /w O= 12 $\Delta = \frac{\nabla f}{\nabla x} = \left(\frac{ff}{fx}\right) + \frac{f}{fx}$ Vx (+ Vy)



Velocity rector changes. ->> Acceleration $= \alpha_{\times} (+\alpha_{\vee})$

$$V_{X} = \frac{1}{2} \frac{1}{3} \frac{1}$$

Not constant acceleration.