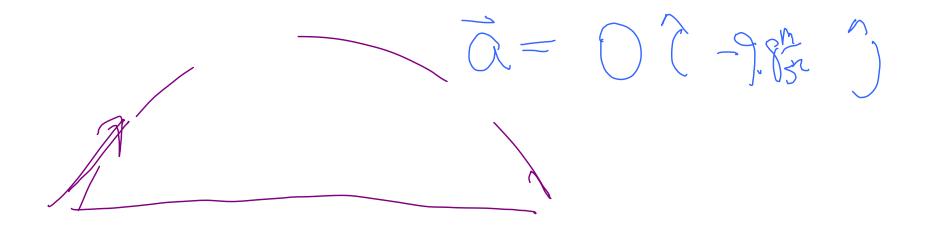
Note Title 1/25/2012



Note Title 1/25/2012

$$V = NQ + V_{y} = 2.6$$

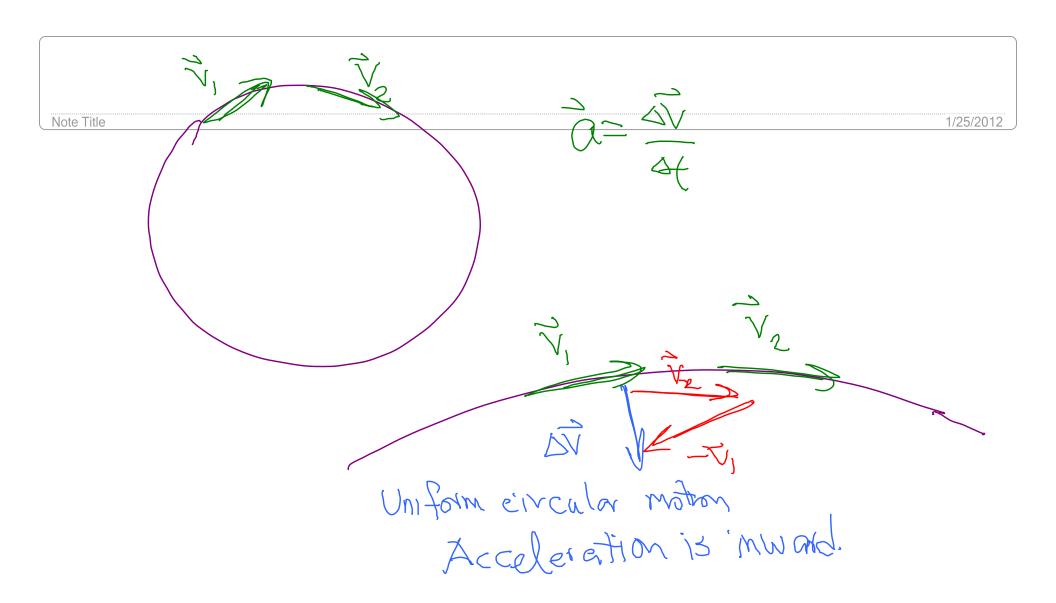
$$D = CO.4^{\circ}$$

2.25 An object is moving in the X-direction at 1.3% when it undergoes accel à = QSZn 1/2 Find velocity vector at 4.45. $V_{x0} = 1.33$ $V_{x0} = 0$ $G_X = O_{so} G_Y = O_{so} S_{so}^m$ $V_{x}=V_{x}+\alpha_{x}t=1.3^{\frac{m}{3}}$ $V_{x}=V_{x}+\alpha_{x}t=1.3^{\frac{m}{3}}$ $V_{x}=V_{x}+\alpha_{x}t=1.3^{\frac{m}{3}}$

Special case!

Constant acceleration $Q_x = constant$

Note Title 3.30 Position of object is $\vec{V} = (3.2t + 1.8t^2) \hat{i} + (1.7t - 2.4t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{i} + (1.7 - 4.8t^2) \hat{j}$ $\vec{V} = (3.2 + 3.6t) \hat{j}$



Note Title
$$\frac{\partial V}{\partial t} = \frac{\partial V}{\partial t} + \frac{\partial V}{\partial t} = \frac{1/25/2012}{1/25/2012}$$

Instantaneous accel

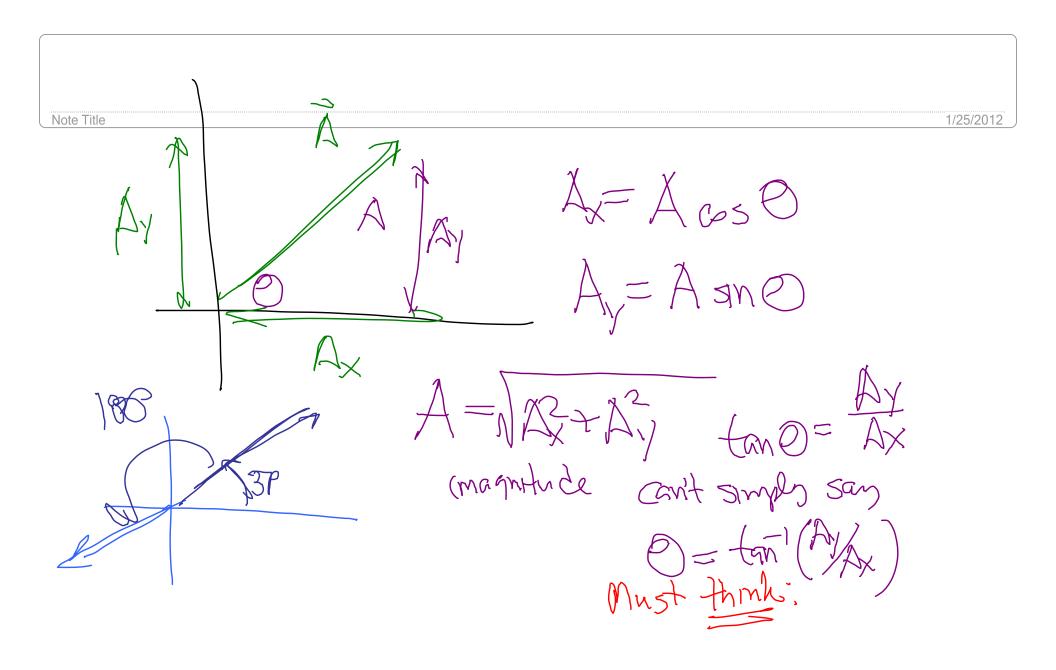
$$\frac{\partial f}{\partial t} = \frac{\partial f}{\partial t} = \frac{\partial f}{\partial t} = \frac{\partial f}{\partial t}$$

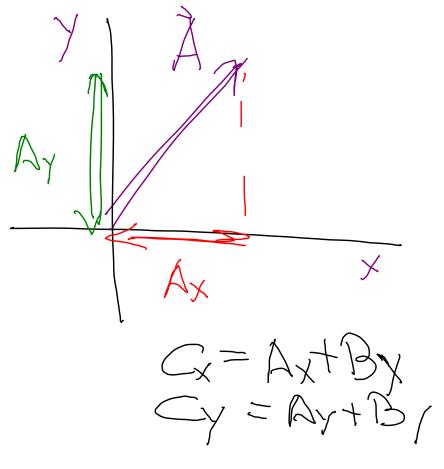
$$C_{X} = \frac{H}{\sqrt{X}}$$
 $C_{X} = \frac{H}{\sqrt{X}}$

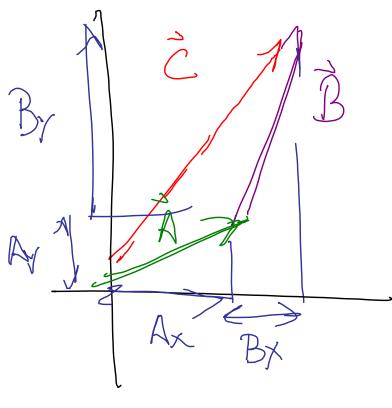
V not constant How fast 13 rebeity rector changing? a

Instantaneous velocity Small = 50 parth (tangent) $\frac{\partial v}{\partial t} = \frac{\partial v}{\partial t} + \hat{v}_{x} = v_{x} + \hat{v}_{y} = v_{x} + \hat{v}_{x} = v_{x} + \hat{$ 27 -> 5ml

Note Title 3.16 Find magnitude of (342+133)m and determine its angle to X axis Convention







1 by scalar Note Title 1/25/2012 Same dir, twice length

Note Title Represent Vectors W/ RMWS

A B

Longth = magnitude Direction

Add vectors

À DE

ネーB= こ

1/25/12 Phys 2110-4

I wo - Dim Motion

 $\times(H)$, $\gamma(H)$

Magnitude: Scalar Energy, lamperature

Mag, Direction: Vector Position receleration
Force Momentum