ŷ

$$\hat{\lambda}$$

$$\sqrt{1-2\hat{y}} \qquad \sqrt{1-2\hat{y}} \qquad \sqrt{1-2\hat{y}}$$

$$V_x = -2$$

 $V_y = -2$

$$y - a \times 15$$

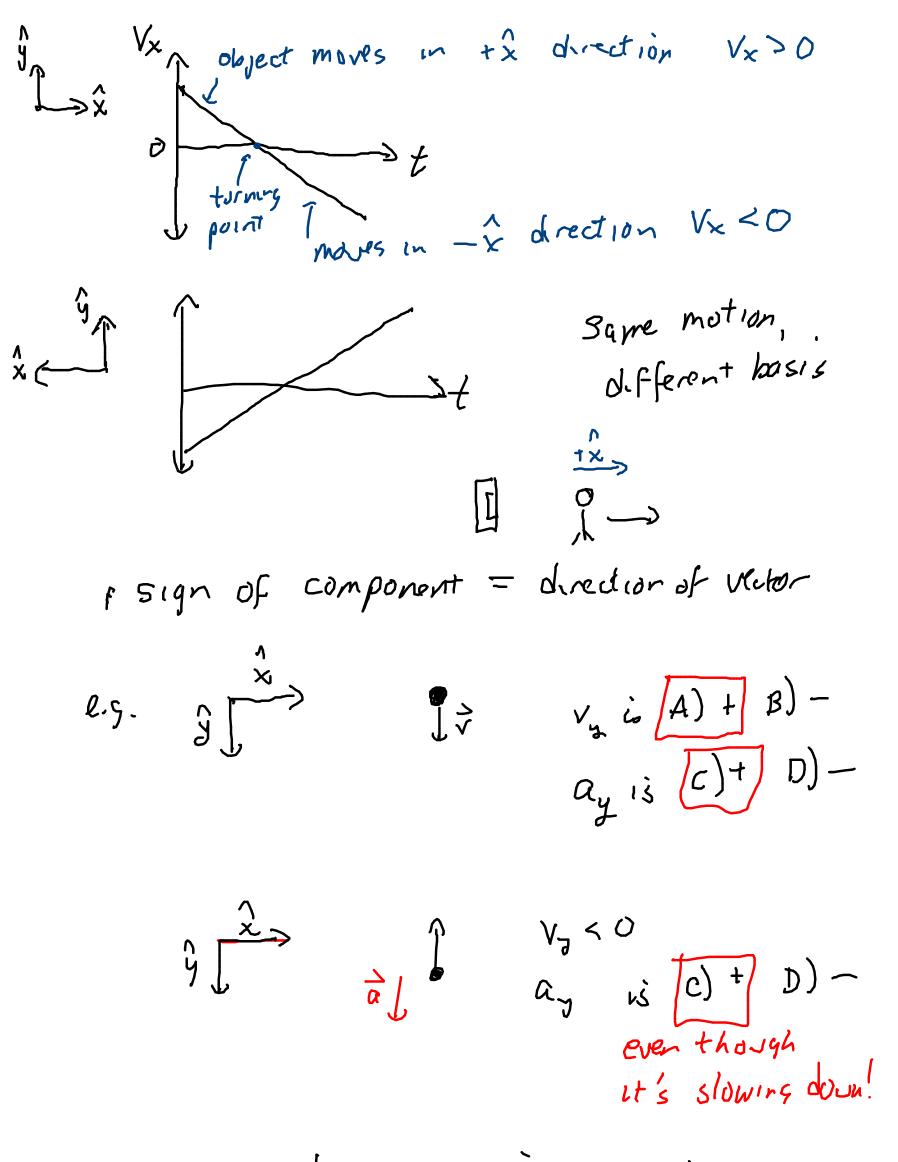
Fy: cosine

Fx: sine

 $\sqrt{x} = \sqrt{x} =$

$$V_y = -2\cos 30^\circ$$

 $\frac{1}{V} = -2\sin 30^\circ \frac{1}{X} - 2\cos 30^\circ \frac{1}{Y} = -2\sin 30^\circ \frac{1}{X} - 2\cos 30^\circ \frac{1}{Y} = -2\cos 30^\circ \frac{1}{Y} = -2\cos$



When vaa have some sigh, speed up vaa have opposite sign, slow down

Types of Acceleration 1) Centripetal center socking acceleration -> circular motion a velocity is tangential to circle · acceleration is towards center · If speed is constant lil then à is perpendicular tu à Our bodies detect acceleration by feeling a force in apposite direction. e.g. stop a car, pushed forward in circular motion. à is torands center, you feel a "force" away from center centrifugal force gertle
curve
big radius aai

centripetal ac= V2

e.g. merry-go-round

small radius more centrifugal fore more acceleration once every V: Circumference = 2r(1.5m) = 4.7 m/s $a = \frac{\sqrt{2}}{r} = \frac{(4.7)^2}{1.5} = |4.8 \, \text{m/s}^2| > 9.8 \, \text{m/s}^2$

t, ght CULVE