veelas Verbre défines direction Space. For example, $\binom{1}{2} = \langle 1,2 \rangle = (1,2)$ dells us the we more twice us folin y dreeden Hom m x dieed-Sood, no forish. The (-1)

The magnitude of vetors tell has foot you're going $\left\| \begin{pmatrix} Q \\ D \end{pmatrix} \right\| = \sqrt{a^2 + b^2}$ $\left\| \begin{pmatrix} x \\ y \\ x \end{pmatrix} \right\| = \sqrt{\chi^2 + 4\chi^2 + 2^2}$ Why Shis $\begin{pmatrix} Q \\ b \end{pmatrix}$ () Johnsporas!! $c^2 = a^2 + b^2$ $\|(a)\|^2 = a^2 + b^2$ $\|(a)\|^2 = \sqrt{a^2 + b^2}$ Unit reeds is a reads with mynitude-f. 11 | (1) | = 12! | | | (b) | = 1 /2s.

Vou on morte ong vedor into a unit reedor. this veels goes in the some tracking extract and with megnitude = 1. Frodest

(B). (C) = OI-C+b.c Dot Product V·W= ||V||·|| W||· cos 0 O is the scude ongle between vond is => D= orccos (\frac{\varvertv.\var}{|\varvertv.\varvertv

Polor Coordnosos Different may of thinking whomat spore. Instead of x,y, be hove r, A. Cooler -graendology llre de ve onert? $y = (\cos \theta)$ $y = (8 \times 10^{10})$ $y = (8 \times 10^{10})$ · tono = sno = rsno = x · r= x2+y2 = /reso+rsno = /r2 = r.