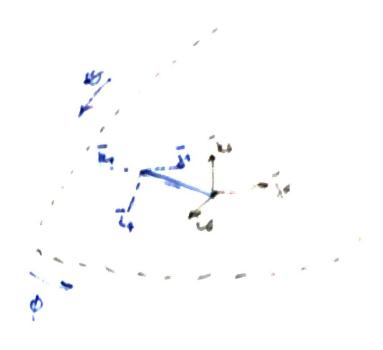
three Dim Analysis



if points down if points to the right

Let, kite velocity in the Thomas be

we know, from Loyd.

7[c]0 - (Ry (0)][R. (0)]

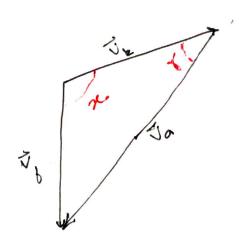
O. [CJT = (TCcjo)Tr

Rotate Tr in the O frame.

ETIS = STOJF ETEST

- se Var ko

Now, we know that flow is only along to The Voto



From 20 analysis, we know that the angle between V_R and V_a is V = atom(Y40)

Angle between to and tk

At this point, let's assume kite is only flying along it or it at a time.

If flying along it, Vey=0

x, = coo" (cosecose)

If thying along $j_{\overline{t}}$. $V_{Ex} = 0$ $\kappa_z = \cos^{-1}\left(\frac{V_{\overline{t}} \cdot V_{Ey}(-\sin(\phi))}{V_{\overline{t}} \cdot V_{Ey}}\right) = \cos^{-1}\left(\sin\phi\right)$