1 Welcome to Lin. Alg Used in all science/tech/math fields elect tools often turn a problem 12th a line els. Suestion to un certral ideas Linear Relationships . Systus. * transformation * hou to characteris à lin. transfrueta.? how to Represent a line transferretin? calculation associal u) e tras. which Lin tras? · decomposi? Everywhen! - Things " multiple forces. circuits chanical reaction diff. specis of carnel Represent a vector Eng. 5N at a agrict 53.1° for hor 12tel 53.1 Megnitur & dir. 3 12 ta plus 4 in the judge. 32+45 components. 745

 $\begin{bmatrix} 3 \\ 4 \end{bmatrix} = 32 + 45 = 5 = 4 = 426 + 53.1°$ Colum vects. it is all the sail pknes ____ Relation - Linea Systems vector _ netvix Represents. . Rou operat. sporties. ·1700 30 . lia. ind. · decomposition. Box held up w/ two ropes. e+/ gin the airls P, O + weight what are the tensions assum static sum of force $=\overline{0}$. Brock ind component each comp. 15 zero. Another us to look -F, (os φ + F, 80) = 0 F, snQ + F2 sn 0 - mg = 0 Fz (0)(0) = F, (0)(0) Circ Relatify

