- Cosine rule - Dot produt. Lets take come rule of algebra: we have traggle with sides a, s, c gle setwen (one Sap: $C^2 = a^2 + b^2 - 2ab \cdot \cos \phi$ The Conbetrar lated into vector notation. a = r vector b = svecter C = r-s vector. - C25 modules of (-S) modules of or = $|r-s|^2 = |r|^2 + |s|^2 - 2|r||s|\cos\theta$ Nav are Com mutiply this out using dot product

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But of 2 weeks were 90% from each Othe 3 5 8=900 Cos 90 = 0 11-S = 11/15).01 90% hoyare contrageral to eachother. Hen dot product will be zero. ky pouted in Samo direction. ad agle setwen he two is 0

Cos &= 1 | Same director r.s= /r//s/

le direction a When dot product = \$, they 90% out 11 Same way,