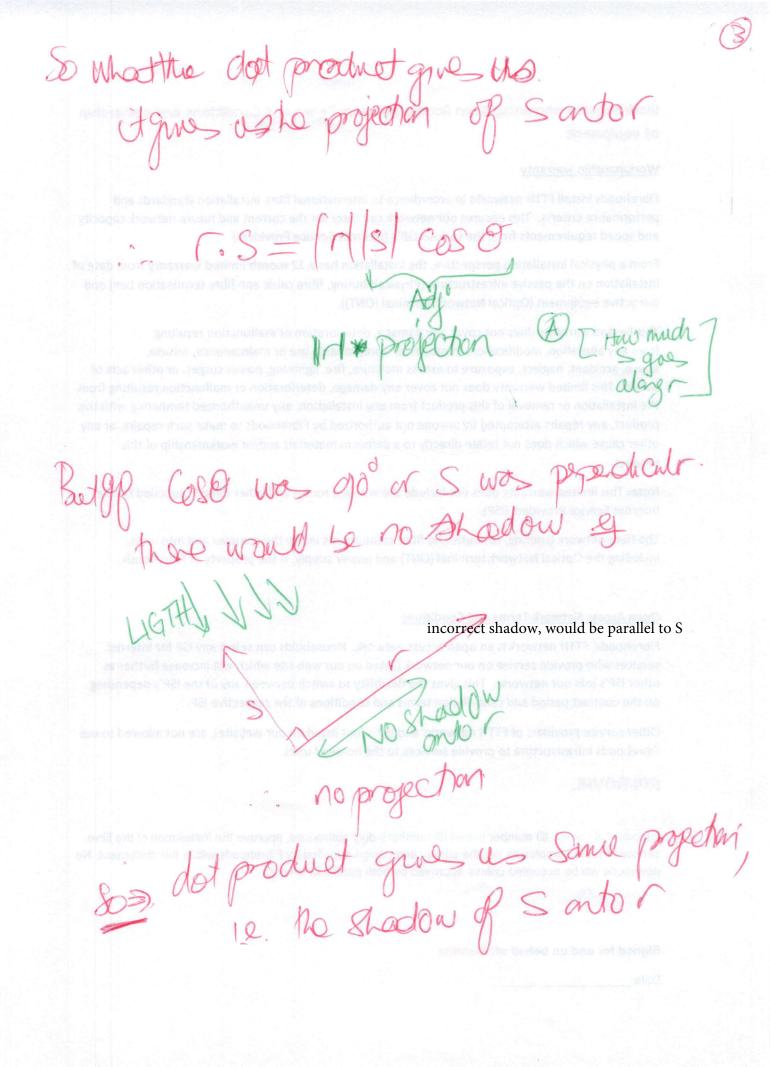
Vector projection.

Talket we need triangle my of odi Thouse vector of and another vectors and chop nght harded trangle (downker) then I can do be following: Coso fran "Sobcah toa"

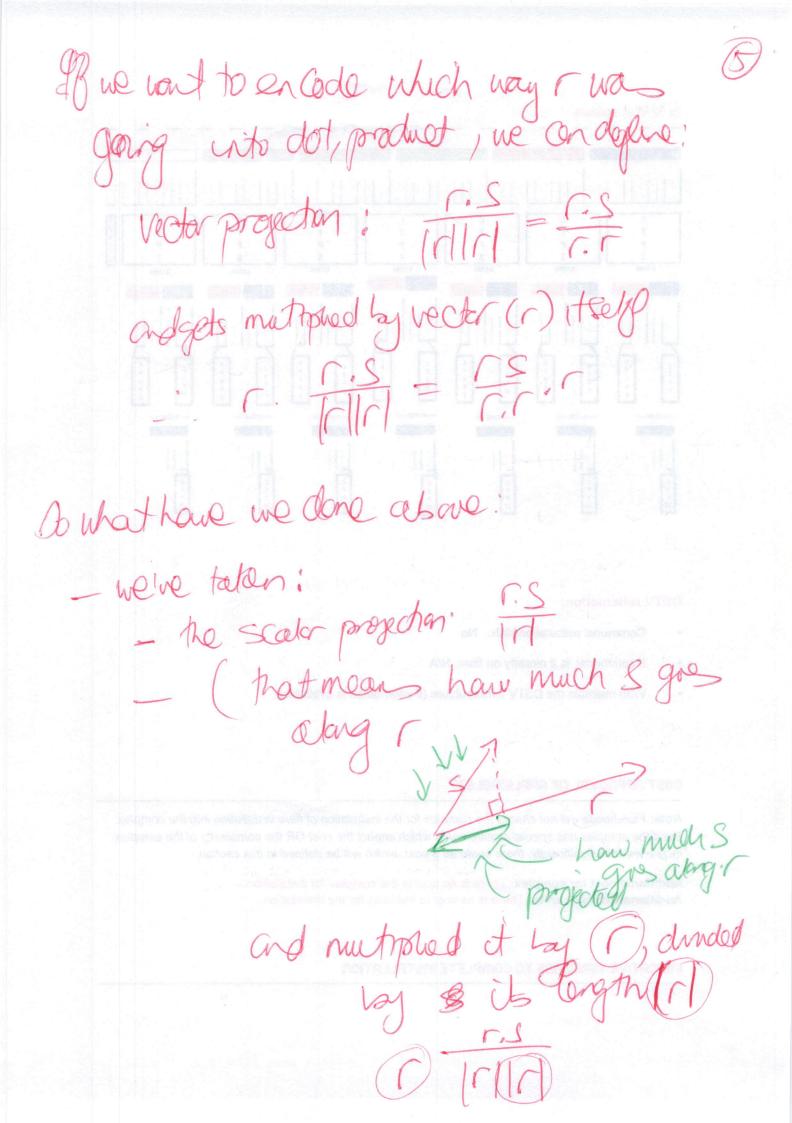
Adjacont leghn

Trypothoneve => size gs and campae this to the depluminan's

Ldef of dot Paduot -. r.s = |r/|s/ coso But Coso = adj factorine > Adj = 15100 r. S = |r/s/coso, But what adj side, Say & have light Coming from S, So Shadaw of Sontor (x) at is called the propos



p we doindé dot product ros sy legmont, & we get (3/caso Le Adjacont side 17 = 14 COSO also Called the How much I Scalar projection Sgos dong F , But hats why se dot product product (rs) is also called he projection product. (it takeshe proportion of one vector, onto another, we just howe to dende by legth of r. le_ Irl) of rwo unit vector, (space of legent) than r.S would just be the Scaler projections of santo of heater



thatistector hat is mutiplied by vector

going the direction of sout normalised

to have a longth of 1 (directly leigh)

artset? hat rectar projection as a number time, a unit (hotgoes indirectoring)