What is Component . This rs <a,b> Form the components give rate regarding Vector direction } How to wadrifngs. tind a vector Orthogral to . First define the plane a plane with o as 2 different Vectors Certain foints @ the result can be negative of and positively the vector reno find Direction vector of 1a and PR, Then take the Cross (x) product of the - two vectors PJ TR,

- then the resulting direction it you are given = vector 75 orthogonal to plano 2 vectors and one of their components contain an unknown a" you an use the dot product, set result to zero followed by rolating a for your army @ Yorce = Torque & Sin(theta) /4\* 10\*-9 01:Stance between fornt a origin

H.W. 3

Alarametric Egodhons in three dimensions are used to represent a line or a curve How to Frad the direction Kind largementic Yector at those two points followed Equations of the points for the Trues going through. one of constant of parameter contain bounts . ((1, 6) t3) xet)= (1 + at vector OCH) = (2 + 16+ points 2(4)= (3+6)+ How to Find . XLT I Find farametric equations the intersection. ZCA) 2. substitute parametric equations ratedire 3. rsolate your + How Find a point which a line interseds & 4. use t-value to extract a plane use the idea the fornt of intersection xy-plane: Z=0 from with substitution . 1. depending. on plane set the whole throng = Xz-Plane = y=B 75-blows x=0 to sow and isolate t. at intersection by substituting

your to value to each

How to Frad Vector Parallel

to the line defined by . I just signify your
larametric equations . point is the constants

gulat 2 5, 6, 1 > < <5,6,4)

Larametric equations of parametric equations

original of parametric equations

- L slokes are y(t)=5+ your + slopes are 210,18,67 Point= (0,-5,=3) = (+) = 3+4+ make a parralled How to Frad the foint for which a true defined by a farametric equation intersects with plane. ; Set ofte a, solve fart, substitute How to find far a metite forametro Egodtions so your exaction agadtions of I planes intersecting. Tosolds should we know So your epostion agadtions 1 9 TVE 400 (010, B) JEF 0 Use Standard Eguation of a plane a(x-x,)+b(Y-Y,)+l(2-zi)=0 1.) cross I equation Compositions to (+-Shee) set coefficions Constants! 3. The gob Components them, Isolak the Shit in TAto Salve by Setting represent x/y BZ

you can use the equation of a plane to give you the t-values (slope of larametric types and you can use the point the Arne Josses through for your constants being either added (submitted How to find a

plane through a point

that is orthogonal just substitute Palvos

to a line.

of Standard agoation

of line. 3. Sub those shits 1. your x, y, & 2, is your standard plane c((x-x))+b(y-y) + 2. yourd, b, 1 is your

t values or

t values for equations How to Kind a Plane that Contains a line and is orthogonal to a plane. In identify your fornt as line of your rector trustes and orthogonal coefficients which are also t-valled 3. the sob resulting coefficient Inte standard place a, b, c and bosuf tal XI 21 51 Then done

How to trad a plane, a line of intersection to 2 agrations. 1. Create a trear system of equations with & planes L. Find & Jeffrent 3. Then find shows forms by making the dreedin 11 zerof solving for vector of the rest. do this the point given 2 times which an points found Should give you Which should ding don of noctors (0,d,D) brust 4. Thon you do sput cross product (0,0,0) to good from the normal voetor 2. Sub point grien Triko plane equation and you're set.

UNSY means mak a fundion you need to find this f(x18) standard 1. Just cross hugart syrretals 1. pot ur points in any of the three and isolate = are sust Arala Between 2 Mares How to find an acote (octtent angle between of vectors Los 0 = [n.on] planes: 11 N'11 11 N 31 How to frad 1. Solve for + in the distance your equation flow a bount (<>+<>+)-(<a140) a fine. line 2. the plug t into your 3. · common equation to suff find the direction of new vector given point 4. then find magnitudullern 1- 6,7 and new rector Aew-giver