1) Butted a 2D viscoting transformation pipelities and also explain open at 2D viscoting transitions.

me me	contract contol contracts scene using modelly and into transfer of the transfe		construct constructo vocas co-cordinate	35	Transon Viewly Co-ordlings to normal? -zed Co-ordlington	7	Map Normalized Co-ordinate to Device Co-ordinates	DC
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The mapping of a two-offment on a world co-ord frate scaled two-offments

Nawing transformation.

Seventimes this transformation is simply referred to as the estudous to visuopert fransformation as usual antimension from the usor of corrections scenario to be usor of corrections scenario to the contract of the contract of the specifying the elipping unindow. When the corrections for 2D applications are the source of corrections of any cutton devices, graphics systems. Construct object of excitations of any output devices, graphics systems. Construct object descriptions of normalized corrections in the requirements of any other devices, graphics systems. Construct object descriptions of normalized corrections in the requirements of any others. In the second second fractions of the requirements of the propositions of the requirements of the propositions of the propositi

\* 2D Viewing Functions & Open GL Holection Mode:

Before no select a clipping contrabon and a viewpoint of court me need to good to the appropriate moderning the modern from the property to transform from noor of to screen.

al Mateix Mode (GL-PROJECTION): This designades the Projection models as the correct mostrex, which is originally set to the Polartity moders. GLU elepping-wholow furction? It defens a food massional CPAPPING WENDOW, we can use the execusion. existing function. Qu Ortho 2D (Xwman, Xwmax, Ywanga, Ywanga); Open GL view Port Function: of vices port Crown, Junga, Vandte, Votog Got): Create a GLUT Display whoolow: glot Just Coarge, ergs); use have two functions in GLOT for definitions display window and choosing its differencian and Position. glot I returndow Position (x &pleft, y Top loft). gut In: I wholow See (deablty al who get) glot Crade Widow (" Letter of alsolary window"). sefteng the GLUT Display-window shoole of color: various displan wholes parameter are selected with the GLUT function! glot Int Display mode (mode); Aut In: + 200 play mode ( QUT JUQUE 1620 1- 1000) gl Clear Color ( not, green, blue, apria). . of Char Index (Prolox): select Dispay-Wholow idea titier: Window ID = glut (rodx Window (" & display whobw") glot Des froy Wrodow (Wandow JD): glut sot whodow (wholow - 30); glot Postforwandow ( & How Topleft, y How Toplatt)

2) Build thong Lighting mode/ with equations!

though reflection is an empirical model of local glumination.

It also cribes the way a surface reflects light as a combinate of the electron of straight surface with the specular reflection of straig surfaces. It is based on though surfaces the small philense specular conservation, that straig surfaces have small philense specular highlights multiple dull surfaces have large highlights that that the more gradually.

I specular = W(0)

though Model sof the Antensity of Specular reflection to costy

II, spacedu zw(e) Ieles d (o < w(o) < 1), is called specular so-afficient.
If light derives and viewifing direction voice on the scence side of homed v. out I to surface, specular effect observativether and operate moderal specular reflection conflicted its

novly constant to.

I you = Joubout + Joliffice + Jupecular

I = Joka + Jold (N.L.) + Joka (R.V.)

Here Id is a combination of red, green, & blue componental

To = (Ire, Ire, Irm),
sturibuly Id is a Combhadian of real, green, and blue component
of oliffuse fullensity. Id - (Zdo idda, Ide)

and Is is a combination of ted, green, a blooken porental specular interchain surfacility.

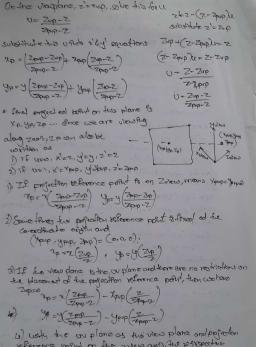
Jo = (Joa, Zo, Job)

These can be represented for a modifix form of

1) Out the the difference between Roster son display and Roundow Scan display.

Rayler Som Pandon Scan a the resolution of rondom soon while the repolation of Royler son & botter ham rondom scan. es higher than souther scan \* It B costiles than randomscan. \* It is east 8 less \* Reflection 8 eagly on comparison & any reflection is not easy. of rapler scan a Interviewing ps not used a toterriculary is used. 4 It is suitable for applications . It is suitable for executing requirily polygon determings telative scene. 5) Demonstrate OpenCI functions for displaying comolow management who alor -> glot Just (darge, arov) It B asal to quitible GLUT Library. - glot Just wandow towition ( stoplet , mappelate), -) existion of display window on screen. ( and this word ausse C width, height) orze of window. globalty is want of display. glotheight is height of deploy. do Crasto Window (" story") It is used to create display window with name - 5 glot Display Func () It seets the display for convent worklow. glotJul Do paybode (); It sed the Builted Display mode: alot Reshape Func ()1 It seds the reshape corelate for correct wholew. glutset Cousor (); It changes the cursor phage of corrent wholow. 6) Explain Openal Usibility dotaction Functions. => glEnable (GLGULFACE) It is used for turning collegion. g) Califace (Mode) It specifies what to call Mode = GL-FRONT or GL-BACK al-BACK is default of frontface (vertex Order) It is for order of vertices. Orientation is changeal. VertexOrder = GLCU or GL-CCW GL-CW is for clockwise desection (front) al-(CW is for counter clockuster direction) GL-CCW is alafault. Create depth buffer by setting GLUTLEPTH floging glot zuit Displaymode () or the appropriate flag in the PIX F.L FORMAT DISC Enable per-pixel dapth testing with gl Enable (GLDEPIHTEST) Cleardepth boffer by setting GL-BEPTH\_BUFFER-BIT & glden() gl Depter Func (condition); change the test used. condition: GLLESS [ closer: recizable (default)] alaceATER [ Rather: resizable] 7) Write a Special cases that we discussed with respect to Perspective projection transformation co-ordinates => X=X-(2-Xprp)u y = y - (y - ymp) a 0 < 0 < 1 > 2p = x (Zp) yp = y(Zp)

z=2-(z-zprp)u



reference popul on the zview and, the resupportue equations area

xb=x (Sbab ) Ab=A(Sbab)

Explain Bezier curve equation along with its proporties use consider the general cose of not another possible deroid as of cally the world be concluded to the case of the conclusion posts are blooded to produce the following postillor weeker p(w), when describes the path of an approximately even polymental function will post an

DCUJ = ZEDPABEZENCOD. OKUEL

The Bosser blanding functions BEZKNO are the Bernotch offered

cohere parametes ((n, e) are the binomial co-efficients

Equil(u) expresseds a set of three parameters agreethous for the Pudpuralual curve co-ordinaries.

ZCO) = \$\frac{1}{200} \text{y} \text{CE2} \text{RE(U)}\$

The most coess, a Breiter curve is a polycrountalate a degree

that is one less than the disciplinated number of ansol

points. There points generates a parabola four points a cube

curve and so forth.

Recursive actualists can be soot to obtain successive bitamish.

Co-efficient values as.

((n,b) = n-+++ ((n,k-1) for n-k.

