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Expt. No.	Page No.
	program - 3
	WITH a program to successively subdividus a terreticon to
	form a 30 stempinske gasket The number of recursive steps 15 to
	be specified at Edicultion time.
	1 kg . 7 g . 1 . 1 g . 9
	#tinclude <911glut.h7
	#inula <stdio.h></stdio.h>
	in the second of the stage
	int m; sint a sint of the sint of
	typicly floar point[3];
	point Ktra (47=1 10,100,-1003, 10,0,1003, 100,-100,-1003, 1-100,-100,-1003)
	void tetrahedron(void);
	void myinit (void);
	void divide-triangle (point a, point b, puint i, portm);
	void draw_triangle (point p1, point p2, point p3);
	int main (int argu, char + argie)
	€
	print (" Eura the no. of iterations");
	scay-5 (40/.d n, +m);
	glutbrit (4argu, orge);
_	9 LUT Display Mode (GLUT_SINGLE/GLUT_PGB/GLUT_DEPTH)3
_	glutwindows121 (500,500);
+	glutwindowposition (100,200)
+	glut (reati Window ("seripinsia" Gaillet");
+	glut Duplay Func (tetrahedron);
+	glerable (GL-DEPTH-TEST);
+	my Dout ()?
+	gluttaanloop();
	9
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votd
        elivide transfe (point a, point b, point c, int m)
  y
          point vijuzivij
          101-33
          (0<m) v
                 (tor (1:0) 3 = 3; 5++)
                        cal (CC) 4+CC) = [2914
                for (3 = 0 1 3 2 3 13 + 1)
                       12 [2] = (a[1]+ E[1]) | 2,
               (++ i; E> i(0=1) roy
                       (SI(T(3) + [113] = [2] EV
               divide - triangle (9, v1, v2, m-1);
              divide - mangle (E, v2, v3, m-D)
              divide-triangle (b, vs, v1, m-1);
         cusc
                draw-mangle (a, b, e);
void mymets
         glewas (olor (1, 1, 1,1));
        91 Ortho f 500.0, 500.0, -500.0, 500.0, -100.0, 500 0);
```

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Expt. No Page No.)
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uord tetrahedron (void)	
giclias (GL-COLOR-BUFFER-BIT GL-DEPTH-BUFFER-	BIT);
9(color3f (1.0,0.0,0.0))	
divide- briangle (tetra [o], tetra[i], tetrale), m);	
alcolor36 (0.0, 1.0, 0.0);	
divide - triangle (tetral 3], terral 2], tetral 1], m);	
a(color34 (0.0,0.0.1.0);	
divide - triangle (ktralo], tetra [3], terra [1], m);	
a(0)0r3(0.0,0.0,0.0);	
devide-triangle (terralo], terralo], terralo], m):	
glflush();	
6	
void draw_triangle (point p1, point p2, point p3)	
4	
g (Byin (GL-TRIANGLES))	
glucito zer (PD);	
9 (Vertix3+v (122))	
glvertx3fv(122); glvertx3fv(p3); gl&rd();	
al Fad ()!	
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