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Contest - 4

1 The abordant of using DDA are

- use flooting point approximation, here naccurate

a bod to be graph looking like a ladde in a larger sport

Over (x,y)=(17,2) (x,y)=(10,5)

Slope = Ay = 3

1m1 <1

if preate proone,

JAH SYRT

Pr= Pr+2Dy Pr=Pr+2Dy-2D=

Hæ

Ax=7,2AX=14, Ay=3,2Ay=6

Intal draision parameter (PR+1) = 20y-Noc = 6-7=-1

for storting point (17,2)

K P Total YM ITH YETI

0 -1 16 2 (16,2)

1 5 15 3 (15,3)

2 -3 19 3 (14.3)

3 3 13 4 (13,4)

4 -8 12 4 (13,4)

5 -2 11 4 (11,4)

6 9 10 5 (10,5)

# Soling transformation is a linear transformation, that scales

the size of the object.



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	to pore: Two serrossive scaling ore intiplicative:					
	let, points be scaled by Son, Sy					
	let the souled by the grating footons Sxo, Sya to point,					
	then combined transfamation is be doserred as					
	7 = s(gra, sya) (sx., sya)					
	$= S_{\infty} \circ \circ \circ S_{\infty} \circ \circ \circ S_{\infty} \circ \circ$					
	0 920 0 82, 0					
	9.2					
	0 Sy Sy2 0					
	This proves two scaling are multiplicative.					
#	anen					
	A(0,0,0) B(1,1,0) C(1,2,2) D(0,20)					
	For rotating +90°					
	(x) [ cos 90 0 sn 30 0 ] [ 0 0 0 0 4					
	y' = 0 1 0 0 = 0 1 0 0   a					
	2' - Smg0 0 C0890 0 0 0 0 0 6 2					
	[1] [00 0 0 1] [1]					
	= 0020					
	0 2 2					
	6-1-10					
	: coordinated after volating 90" is					

(0,0,0,0)(0,1,-1)(2,2,-1)(0,2,0)

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	Now to reflecting on y-2 place
	> x chages ; yz unchaged
	Buys = [-1 0 0 0]
	0 1 0 0
	0010
	0000
	Coordinates after reflecting about 4-2 place is
	A'(0,0,0) B'(0,1,-1) C'(2,2,-1) D'(0,2,0)
	The state of the s
(3)	wordow: A or area selected for display from real world is
	called a noder.
	verpont: It is a sea on display device to which undow is
	dispryer.
	The state of the s
	windows to rea porturasformation is the transformation of
	the area from window to viewpoint. It is used to display
	On a rindow on a verpoint deice
	5 steps to traction vindow to viewpoint are:
	O Scaling the dipping mindow to size of viewpoint using
	fred part position of (xwmm, yours)
	(i) Troslate (T) (Xvmn, younn) to (xumn, yumax)
	S= Sx 0 0 000 mm (1-3x)
	0 Sy yrmn (1-Zy)
	T= 10 ZBUMM TXWMM
	0 1 yann yann
	They = 550 0 tox
	O Sq Eq

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	Soc - DORVinax - Ocumin	
	XV max - XV min	
	Sy = yuman - yuman yuman - yownin	-
		_
	tx = xwmx = xxmm = xvmax	_
	xvnax-xvmm	_
	by = Yunax, Yunn-Yunn, Yunay	
	Yu nax - Yu um.	
	ane-suttebel ander to coordinate system to garavegion.	
	All gregion hope their a speciated ragion codes.	3
0	Every lines endpoint is assigned a 4 digit binary conte.	1
0	If the region code of both end point in 0000, the line	
- 11	is completely uside the clip on window.	
	- if logical AND of region code is not '0000' te	
	line lies completely outside.	
To	both cases, line dipping is not necessary if:	
	OB, is high, x=xvm	
	y=y, +ocnonax	
1	Dog is night, octownan Rogion 1000	
	y=y,+m(x-x,) By B3/B2B	1
6	If Bzishgh, y=ywmn	
	x=x,+1(y-y,)	
6	) Principle HEMING	
(3)	By is way high, y = young	
	$x = x_1 + 1 \left( y - y_1 \right)$	

The max 500 , or - 10 gumes=50 you = 10 headpot = P(20,5) \$ (40,80) R(20,20) S(80,60) Be (20,5), (40,30) Region 100 (20,5) B. : 28 < 10:0 Region code 8, 1 20250:0 -> 0 1 0 0 B: : 5<10:1 B4: 5 750:0 Region code for Q (40,30) B.1: XCXVm 1 40/10:0 Bo: 20 max: 40750: 0 Region code B: y & yem : 30010:0 -> 0000 Ba: y>ywwax: 30750:0 m= 40-41 = 5 Reforming logical AND for region coates (0100)2 A= (0000)2 Interestor post for P(20,5) Baisnigh: y=ywmn =>y=10 x -x, +1 (y-y) x = 20+1 (10-5)