MARIHARAN BP

CAE-2 Computer Graphics

given coordinate ou A (3,411) B(6,412), E(5,613) Reflection coordinate our! F.ON XT plans ( Tr, Ty, Tz) Ty=1 TZ = 2 = (1, 1,2) 2 = - 2 for Coordinate A (3141) A (01311), B(313,2), C(3,010), D(01010) For bordinate A(0,311) A Mew cooldinate are for A = (x', y', z') x= x + Tr = 0+1 =1

y'= Y+7y = 3+ (= 4 2'= Z+ T2 = 1+2=3.

DA(K,Y, 2) = A(1,413)

.. Meu Coordinate of D = ( or 1, 1, 2)

2 = ot 2 = 2

Thus, new coordinate of object are A(1,4,3); B(4,4,4), C(4,1,3), D(1,1,2)

6 b) Parrallel Projection

Puspetin Projection

- 1) In this case a view place
- 2) lines projection are parrallel

the object position are trongformed to the view plane

Line projection au not parrallel

3) > The bottowing on the advantages of Parallel

projection.
Advantages (Prus)

- 14) Good gor Enach measurment
- 2) Parallel lines romeur parallel

Disadvantays ( was)

- 1) Les Realitic Loulaine
- 11) Angles are not preserved.

perspettin projection:

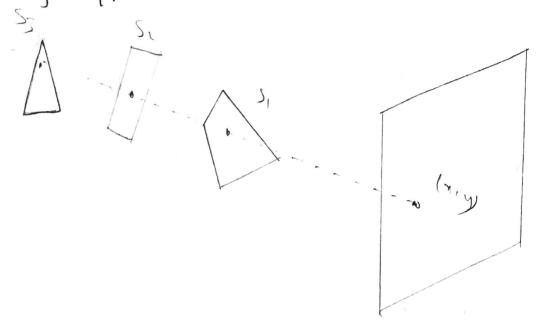
1) Better look

11) Clear Representation

(ons:

- 1) Difficult to Draw
- 11) Not suitable of multimenydemensional images-

- The following one the 4 500s-1 Depth luffer:
  - & Jonaya spar method
  - .> Compous sujur depths at each pinel position Ano throughout the scene on the projection plans -> Usually, applied to images having polygons.



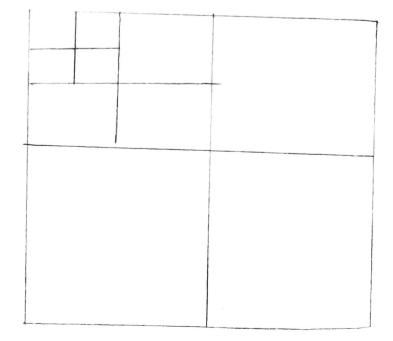
- A-byfer
  - s Enten from of digth buffer
  - > Each suffer purition can referred to as linked
    - list of surfaces.
  - > Each position has 2 fields.

depth Rast	1 mc	Sung.	- FINE
april Shrist	appro		
1/0 0110 (10)			

(nc)	Anea	Sub	division	method:	-
-			CALL THE PARTY NAMED IN COLUMN TO THE PARTY N		

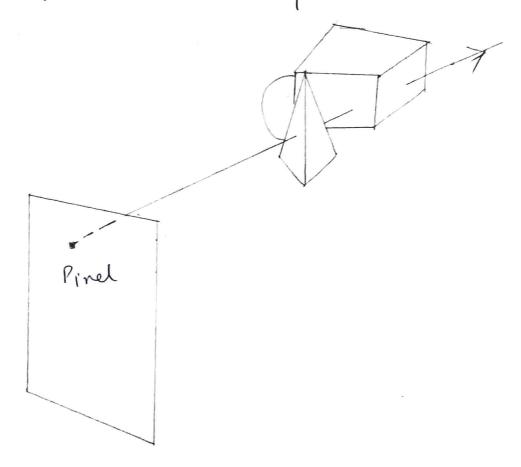
-37 alues. advantage by locating those view oneas that represent part of a single surface

> projection of part of a single visible surface / no surface.



39110373 (1) Ray Castry Method: > Trave the path of light rays, > line of sight from a pirel position on the view plane through a sunl. 3 Determine which objects intersect this line

> Identify the visible surface whose intersection point is dood dosest to the pinel.



## PART-A

Boundary Representation or B-Rep in an extension extension to the we wirefrome model which describes the solid in terms of its surface boundaries.

Verten tall V1: 41, 141, 21 V2: 42, 42, 22 V3: 43, 43, 23

Vu: Xy, Yu, 24 Vs: Xs, Ys, 25

@ Implicat curvey

Egn 2+42- R=0

@ Parametra Curu

Equation: P(t) = A(t), o(t)

@ p(t) = x(t), y(t)

Object Space Nethod

gnage speur nethod

(1) Company object & parts. of obey object to each other

withing to determine

@ Efficient for small no. of objuts

Visibility in deter mixed by point-by-point point at each pinel position conth projection plane

# Efficient for large pinds.

The pollowing on the types of light source:

19 Port Por

@ Point Source

@ Parrallel Source

(11) Distributed Source.