

## in: 38180301280

- \* Lians Barsky
- · Cohen Sutten land
- find clipped section

(-109) incertify in 21/

7min = 0 0100 xmin = 0

Using Liang Batisky we get

$$u_{1xft} = \frac{q_1}{r_1} = \frac{-10 - 0}{-(30 - (-150))} = \frac{-10}{-40}$$

$$V_{right} = \frac{q_z}{P_z} = \frac{20 - (-10)}{x00 \cdot 30 - (-10)} = \frac{30}{40} = \frac{3}{4} = U_{max}$$

Uman = 4 Uman = 3 Pend - fo = (30 + 10, 6-9) : (40, -2) If umin < uman, there is a line segment So we need to draw a line from (-10+30x 4, 18+ (-2) x 4) = (-10+20, 18-1) = (-2.5,17.5) ×, x, 1 -10 + 30 x 3 , 18 + (-2) x 3 ) = (-10 + 22.5, c (12.5,16.5)



REAL VERVE - CA 18 (0,18) A (20,8) B

Llang- Bansky algo A line segment has with and points

( No, 40) and (Ment / Yend)

we can describe in parametric form

n = No + UAn

Y = Yo + UDY

whone

An = Nend - no

Dy = Yend - Yo

It is more efficient man cohen suturiond

A line is inside to clipping region for values of

U such that

nwimin = xo+ uAn = xwman

at = Yend - To

Yumin Lyo + Ly & Yuman

P, = -An gp = no - nomin (Left Boundary)

P2 = An 92 = nwmon -no ( Right Burndary)

P3 = - Dy 93 = 70 - Yumin ( Bottom boundary)

Py = Dy ay = ywman (Top boundary)

Px = 0, as a increases, line goes from outside to incle - entroing Fr >0, pline goes from inside to outside - exiting

Pa = 0, line is parallel to edge.

A = 000, 1000 11 B = 0110 Tolilid oooo we clipping candidan

.. So to line is accepted

for Pp: N=0

$$7 = 71 + m(n - 71)$$

$$= 18 + 6.18 \times (0 - (-10))$$

$$= 18 + -21' \times 10^{2} 18 + -0.3(0.10)$$

$$= 18 - 3 = 15$$

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for Q: 1 = 20

 $Y = m \left( \frac{x_{man} - x_{1}}{t y_{1}} \right) \frac{x_{1}}{t y_{1}}$   $= -0.3 \left( \frac{z_{0} - z_{0}}{t} \right) \frac{z_{0}}{t} \frac{z_{0}}{t} \frac{z_{0} - z_{0}}{t}$  = 3 + 1  $= 30 + 16 \times 2$ Q(20)9)

intersecting points (0, 15)