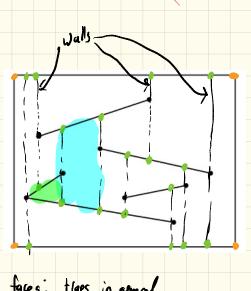
## rapazo dations

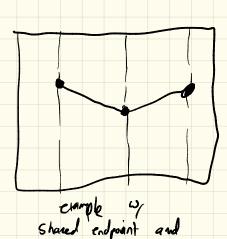
Let 5={s,--,sn} be a set of line segments
that all not intersect (except raybe at endpoints)

assume no 2 epopoints have the same x-coord (except shired endpoints)

=) no vertical segmente



faces; traps in someal may degenerat to Ds



No D

Claim: given trapezoidation of A segrents trap map has; - at most Gn+4 verts - at most 3ntl taps pf: # of verts each vertex shoots 2 mys each ray creates a new vertex =7 I endpoint from segment creates 3 verts in the trap map each segment has 2 endpoints =7 6n verts 14 For the square # of traps -each tray in the map has a left side defined by a seg endpoint - the left endpant for a sey can be left bounding vertex for at most 2 traps lone above on below -the right endpoint of a segment can sere as left boundy for I trap =) each segment of the subdivision tley can result in 3n traps

+1 trap from the bounding box

Observe:

each trap is defed by 4 objects

- seg on top

- seg on bottom

- seg endpoint on left

- seg endpoint on right

Construction as succeptive New techique is randomized incremental construction (RIC)

