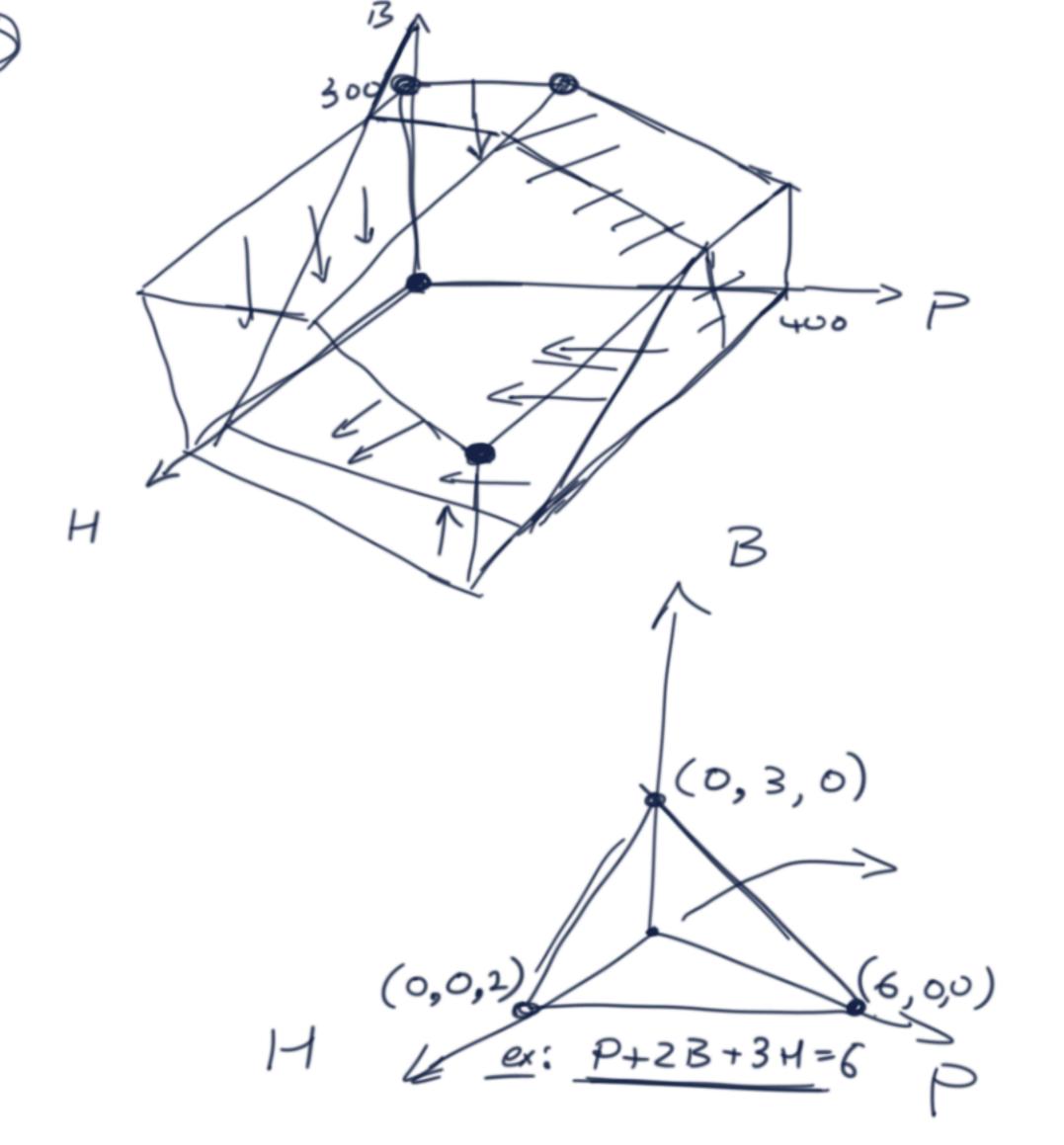
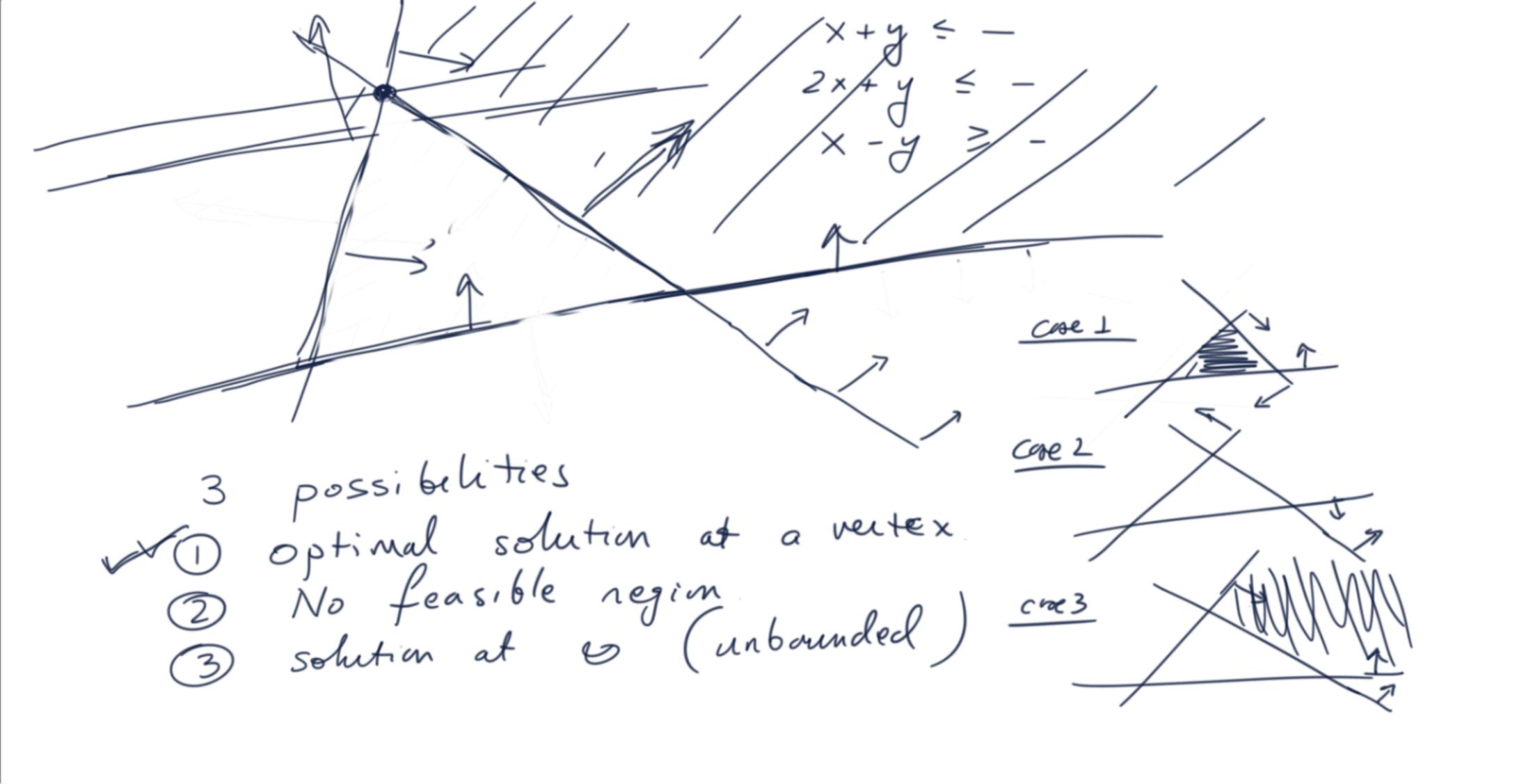
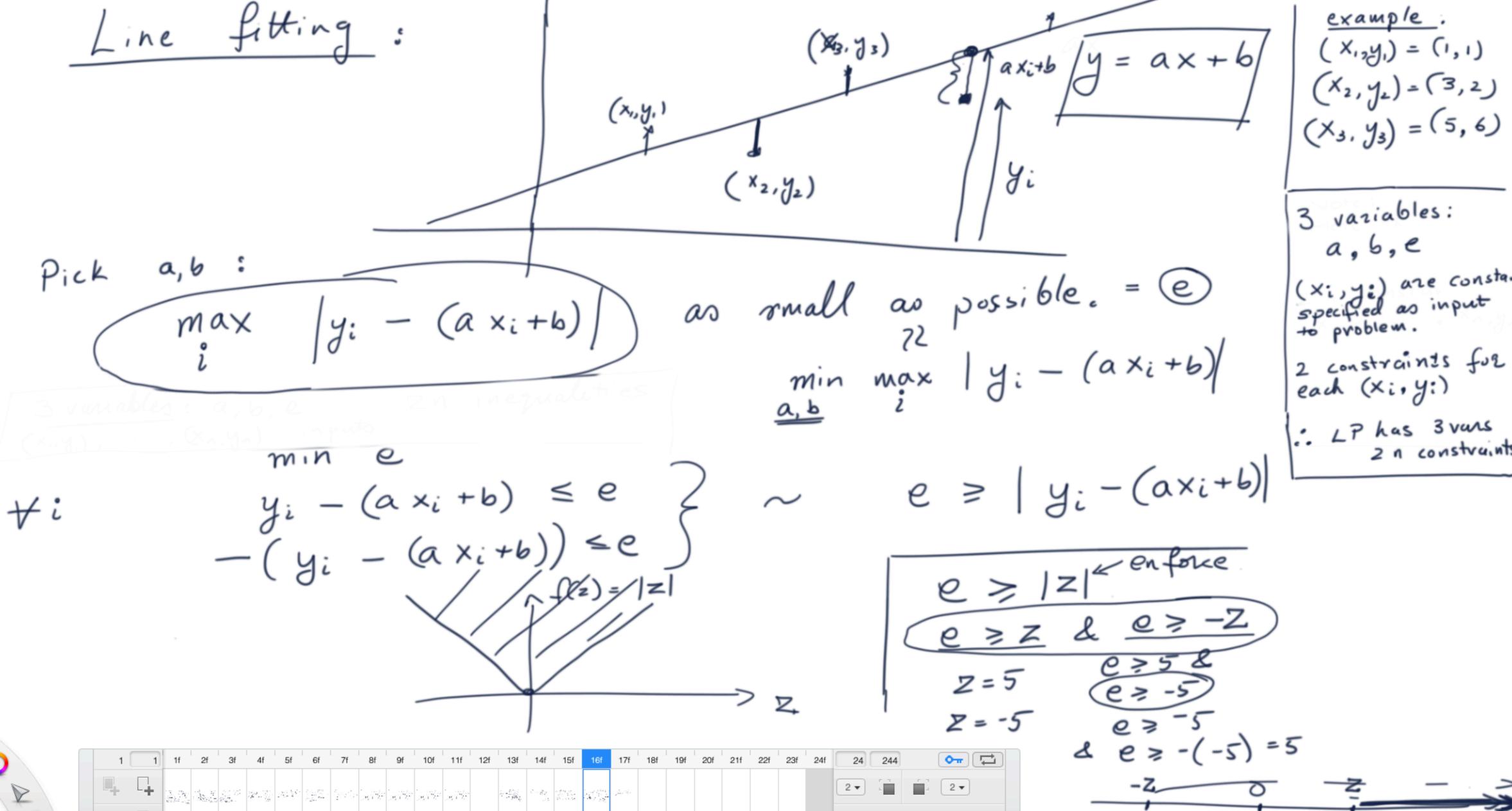
Linear Programming
Kantorwich - planning
Koopmans - classic economy large organizations airlines 1939 1975 Nobel prize Economics George Danzig: simplex Example: Demand: P < 400 P+2B=-B ≤ 300 2P+3B ≤ 1200 max (P+2B)

$$P + 2B + 3H$$
 $P \le 400$ 
 $B \le 300$ 
 $2P + 3B \le 1200$ 
 $B + 2H \le 400$ 







example. (x,,y,) = (1,1) (X2, y2)=(3,2)  $(x_3, y_3) = (5, 6)$ 

a,6,e (xi, yi) are constant specified as input

each (xi, y:) : LP has 3 vans

2 n constraints

+2