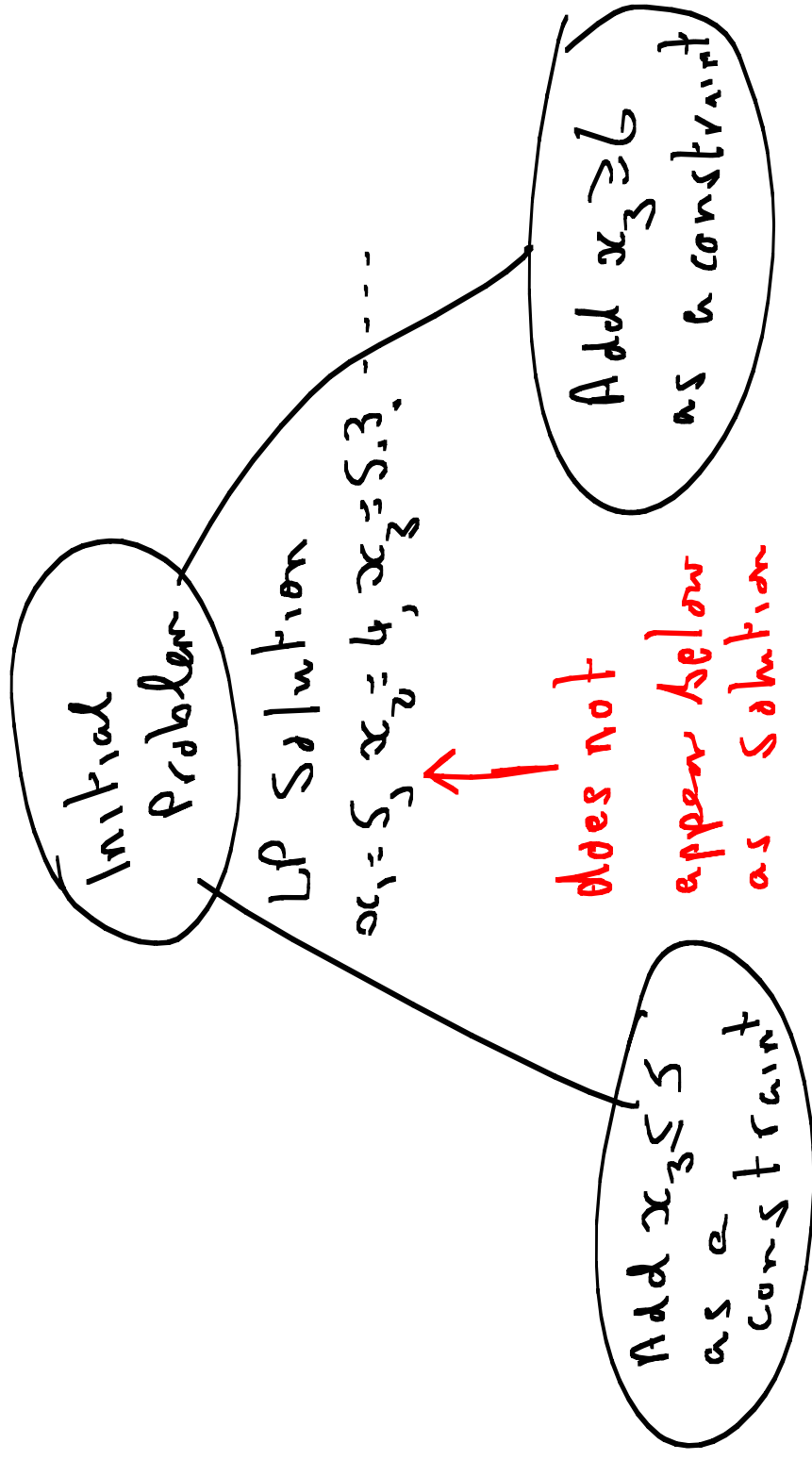
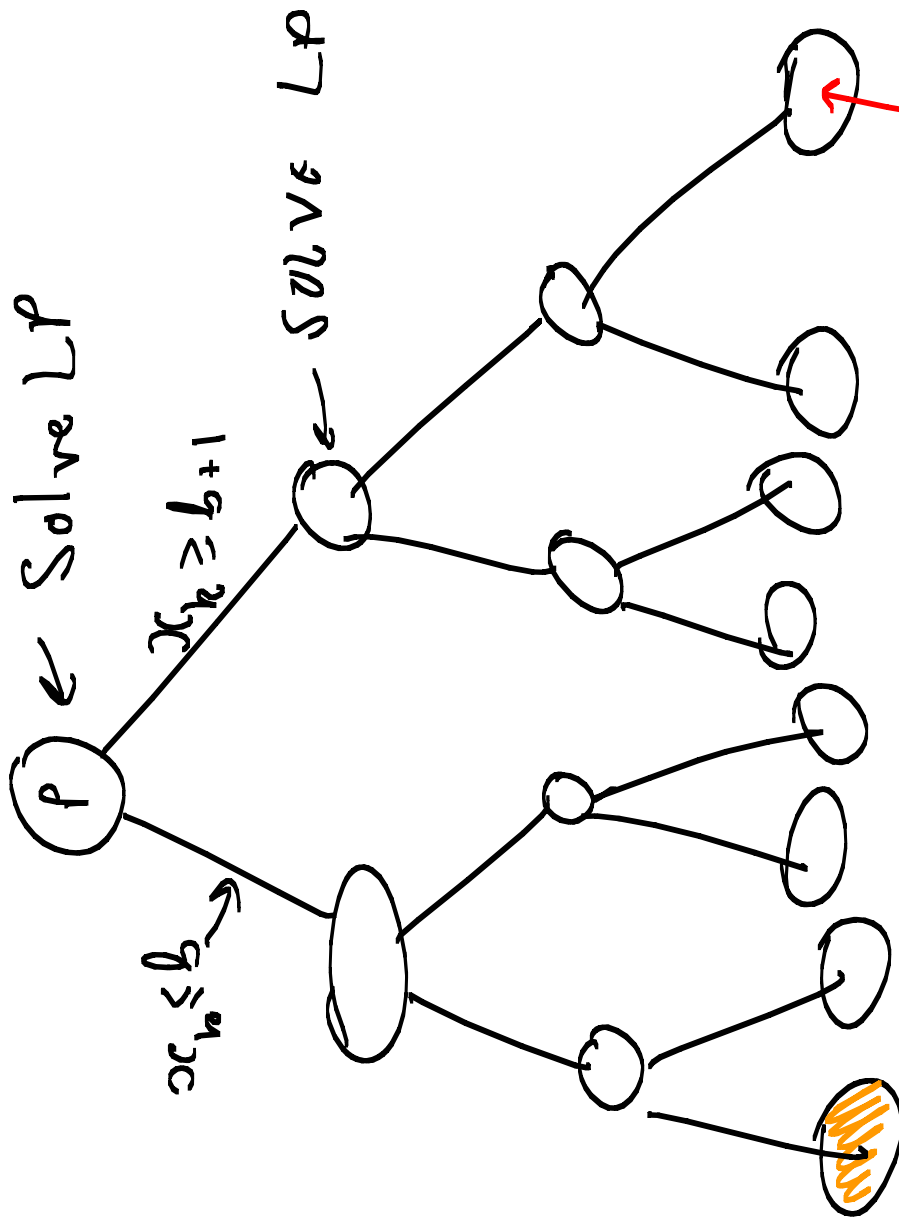


Suppose for example in optimum solution

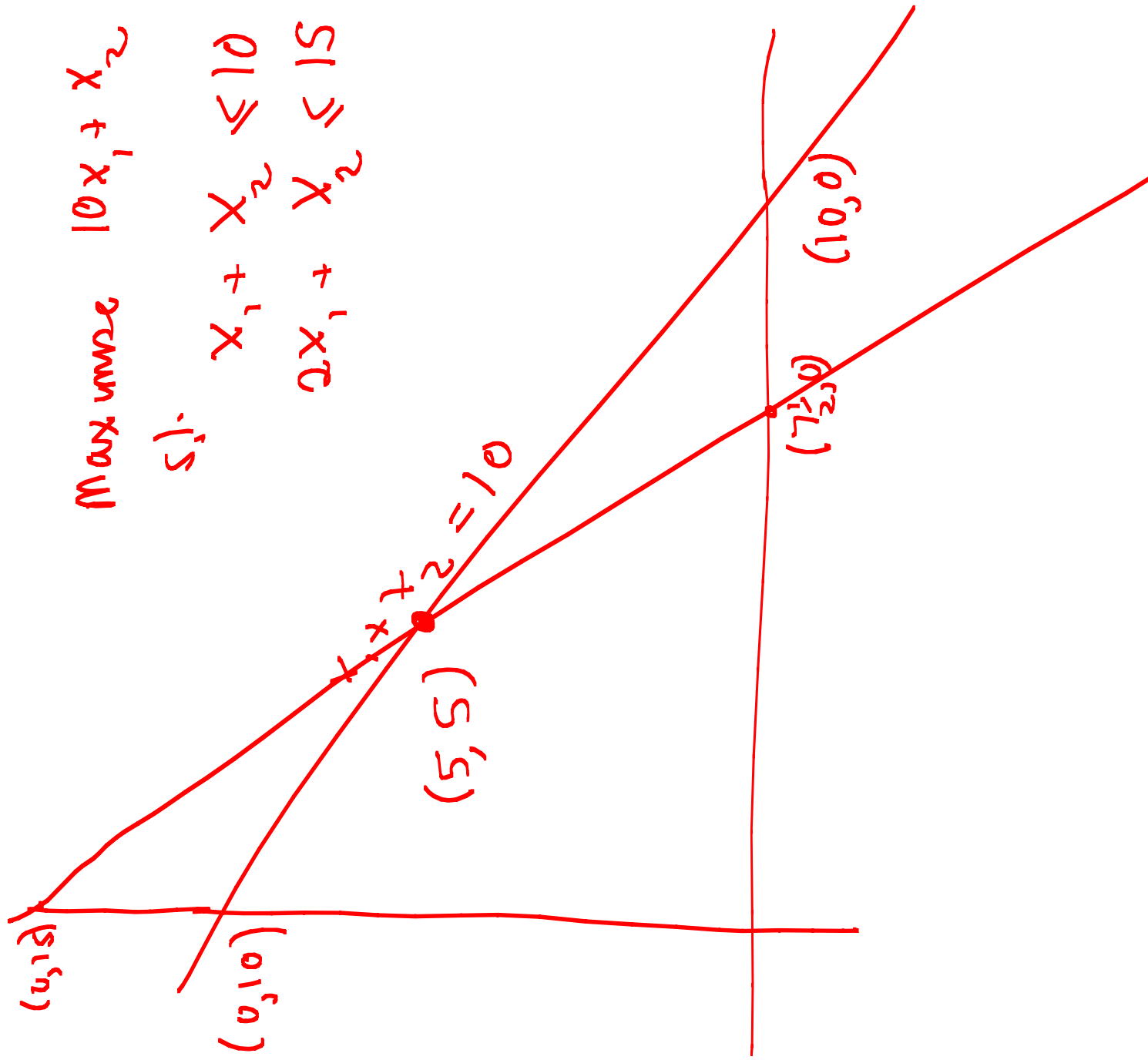
$$x_3 = 5.3$$





If LP value
 worse than
 value of
 known solution
 - ignore problem

Solve LP
 & its solution.
 - integer, this
 gives a feasible solution.
 (only optimal for sub-problem)



LP Solution
 $x_1 = 7\frac{1}{2}, x_2 = 0$
Obj. Value = 75

$$x_1 \geq 8$$

INFEASIBLE

$$x_1 \leq 7$$

LP Solution
 $x_1 = 7, x_2 = 1$
Obj. Value = 71