

Linear Program: Vars in $\mathbb{R}^n \ni x$

m constraints.

then we can write constraints

as $Ax \leq b$ where A $m \times n$ matrix.

b is $m \times 1$ vector.

$\{x \in \mathbb{R}^n \mid Ax \leq b\}$. feasible region.

↓ feasible solution.