

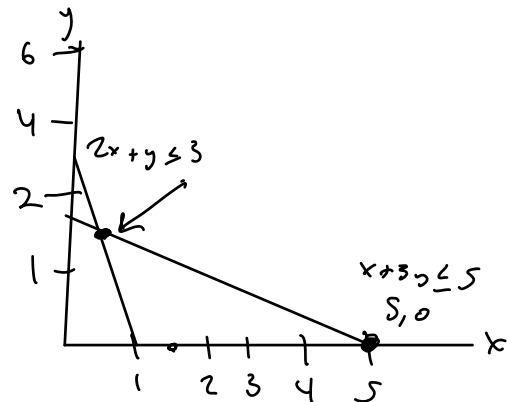
7.11

$$\min 3a + 5b$$

$$2a + b \geq 1$$

$$a + 3b \geq 1$$

$$a, b \geq 0$$



$$= \left(\frac{4}{5}, \frac{2}{5} \right)$$

	x	y	x+y
A	0	0	0
B	0	1/3	1/3
C	4/5	1/5	1.2
D	1.5	0	1.5



Optimal solution is

2.2

7.13

a.
$$\begin{matrix} & H & T \\ H & \begin{bmatrix} +1 & -1 \end{bmatrix} \\ T & \begin{bmatrix} -1 & +1 \end{bmatrix} \end{matrix}$$
 for "R"

b. $x = (x_1, x_2)$
row

$x_1 - x_2$ or $-x_1 + x_2$
column

$$z \leq x_1 - x_2$$

$$z \leq -x_1 + x_2$$

$$x_1 - x_2 = 1$$



$$x_1 - x_2 = 1$$

$$\underline{x_1 - x_2 = 0}$$

$$x_1, x_2 \geq 0$$

$$\overline{2x_1 = 1}$$

$$x_1 = 1/2,$$

$$x_2 = 1/2,$$

$$x_1 - x_2 = 0$$

Optimal Value is 0