6.
$$-(a)$$
 • $x_3 = \pm 4 \pm 4 \times x_1$

$$+2 \pm 4$$

$$+11$$
• $x_2 = -2 - 4 \times x_1$

$$+2 - 4$$

$$-2 - 4$$

$$-6$$

We are bouded by
$$d \leq x_1 \leq x_2$$

We are bouded by $d \leq x_1 \leq x_2$

We can be de to the line

We need to of it to lo lo lone

upen load of x_1

(b) min
$$x_1 - 2x_3$$

 $x_1 - 2(+2+9x_1)$
 $x_1 - 4 - 18x_1$

0 Y 0 = -1 + 3x1

[+2]

min - 17x, - 4

(J) NO, he bounds of x, one 18 x,
$$\approx 100$$
 me can infrom the bounds by Bound flop.

on $-17(21-4=1-31)$

7- (a)
$$\theta(u^3)$$
 $\theta(u^4)$ additional raiselys

 $\theta(u^4)$ total when of clave

LPS

47660352 M

1-

2 .-

5.- (a) o basic variable x, b value + 2

 $\begin{cases} X_1 = +2 - 4x_0 + 2x_3 \\ X_2 = +2 - 2x_0 + x_3 \end{cases}$