

Chapter 9.7: Exercises

1.)

(a) Sketch the hyperplane:

$$1 + 3x_1 - x_2 = 0$$

$$H_1 = x_2 = 1 + 3x_1$$

$$(b) -2 + x_1 + 2x_2 = 0$$

$$2x_2 = 2 - x_1$$

$$x_2 = \frac{2 - x_1}{2}$$

$$H_2 = x_2 = 1 - \frac{x_1}{2}$$

↓

x_1	x_2
-2	2
-1	$3/2$
0	1
1	$1/2$
2	0

