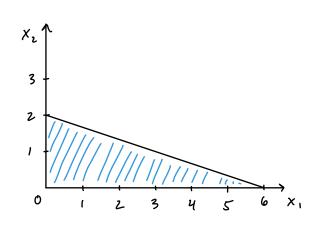
Oppgave 1:

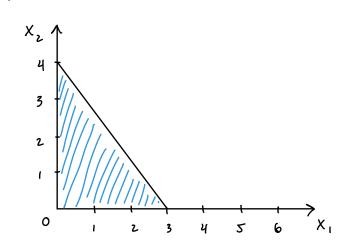
3.1-2

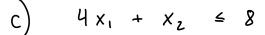
De skraverte områdene viser de ikke-negative løsningene som oppfyller begrensningene.

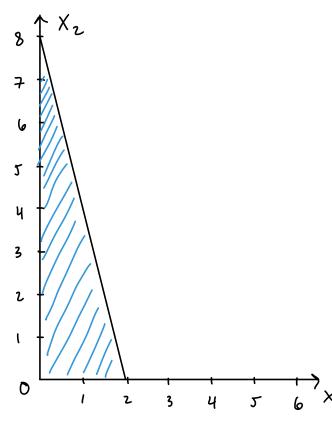
a)
$$x_1 + 3 \times z \leq 6$$



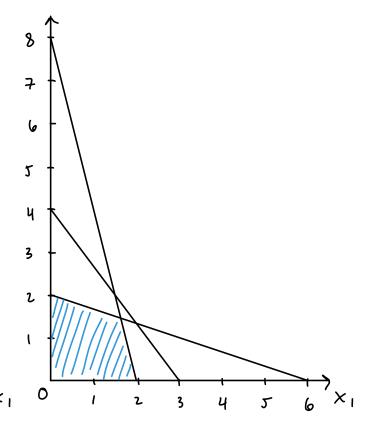
b)
$$4x_1 + 3x_2 \le 12$$



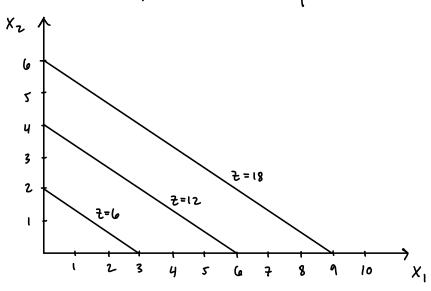




d) Alle nestribsjoner.



$$z = 2x_1 + 3x_2$$



b) Slope-intercept form of equations:

$$z = 6$$
: $z = -\frac{2}{3} z_1 + 2$

$$\xi = 12$$
: $\chi_{z} = -\frac{2}{3} \chi_{1} + 4$

$$Z = 18$$
: $X_2 = -\frac{2}{3} \times_1 + 6$

The three lines have the same slope, but intercept the X_2 -axis in different places. The larges Ξ is, the greater X_2 is at the intercept.