Primal problem

Problemformulering

$$\max 4x_1 + 3x_2 + 5x_3$$
$$\text{u.b.b.} \quad 2x_1 + x_2 + 3x_3 \leq 4$$
$$-x_1 + x_2 \geq 0$$
$$x_1 + x_3 = 1$$
$$\text{Samt fortegnskrav:} \quad x_1 \in \mathbb{R}, x_2 \geq 0, x_3 \geq 0$$

Dual problem

Problemformulering

$$\min 4y_1 + y_3$$
$$\text{u.b.b.} \quad 2y_1 - y_2 + y_3 = 4$$
$$y_1 + y_2 \geq 3$$
$$3y_1 + y_3 \geq 5$$
$$\text{Samt fortegnskrav:} \quad y_1 \geq 0, y_2 \leq 0, y_3 \in \mathbb{R}$$