

Example. Maximize

$$z = 3x_1 + x_2$$

subject to:

$$-x_1 + x_2 \leq 1$$

$$x_1 \leq 3$$

$$2x_1 + x_2 \leq 7$$

$$x_1, x_2 \geq 0$$

simplex method continued...

simplex method continued...

simplex method continued...

simplex method continued...

Geometric interpretation of the simplex method

Recall: Maximize

$$z = 3x_1 + x_2$$

subject to:

$$-x_1 + x_2 \leq 1$$

$$x_1 \leq 3$$

$$2x_1 + x_2 \leq 7$$

$$x_1, x_2 \geq 0$$

