ITEC451 - Activity 15

objective function:

min z =
$$50x_1 + 20x_2 + 30x_3 + 80x_4$$

subject to:

$$400x_1 + 200x_2 + 150x_3 + 500x_4 \ge 500$$
 (calories constraint)

$$3x_1 + 2x_2 \ge 6$$
 (chocolate constraint)

$$2x_1 + 2x_2 + 4x_3 + 4x_4 \ge 10$$
 (sugar constraint)

$$2x_1 + 4x_2 + x_3 + 5x_4 \ge 8$$
 (fat constraint)

$$x_1, x_2, x_3, x_4 \ge 0.$$