



Lineare Optimierung

$$F(X) = -2x_1 - 3x_2 - x_3 := \text{Min!}$$

$$g_1(X) = x_1 + 2x_2 + x_3 - 15 \leq 0$$

$$g_2(X) = x_1 + 2x_2 + 3x_3 - 10 \leq 0$$

$$g_3(X) = 3x_1 + x_2 + x_3 - 5 \leq 0$$

$$g_4(X) = 2x_1 - x_2 + 2x_3 - 12 \leq 0$$

$$g_5(X) = 0,5x_1 - x_2 + 0,5 \leq 0$$

$$g_6(X) = -0,1x_1 + x_2 - 1,75 \leq 0$$

$$g_7(X) = 0,5x_1 - x_2 \leq 0$$

$$g_8(X) = x_1 - 1 \leq 0$$

$$g_9(X) = x_2 - 2,5 \leq 0$$

$$g_{10}(X) = x_3 - 2,5 \leq 0$$

Ergebnisse

$$x_1 = 0,4; x_2 = 1,79; x_3 = 2$$

$$F(X^*) = -8,179$$

