

$$f(\mathbf{x}) = \mathbf{x}^\top \mathbf{A} \mathbf{x}$$

$$g_1(\mathbf{x}) = -x_1^2 + x_2 \leq 0$$

$$g_2(\mathbf{x}) = -x_1 + x_2 - 2 \leq 0$$

