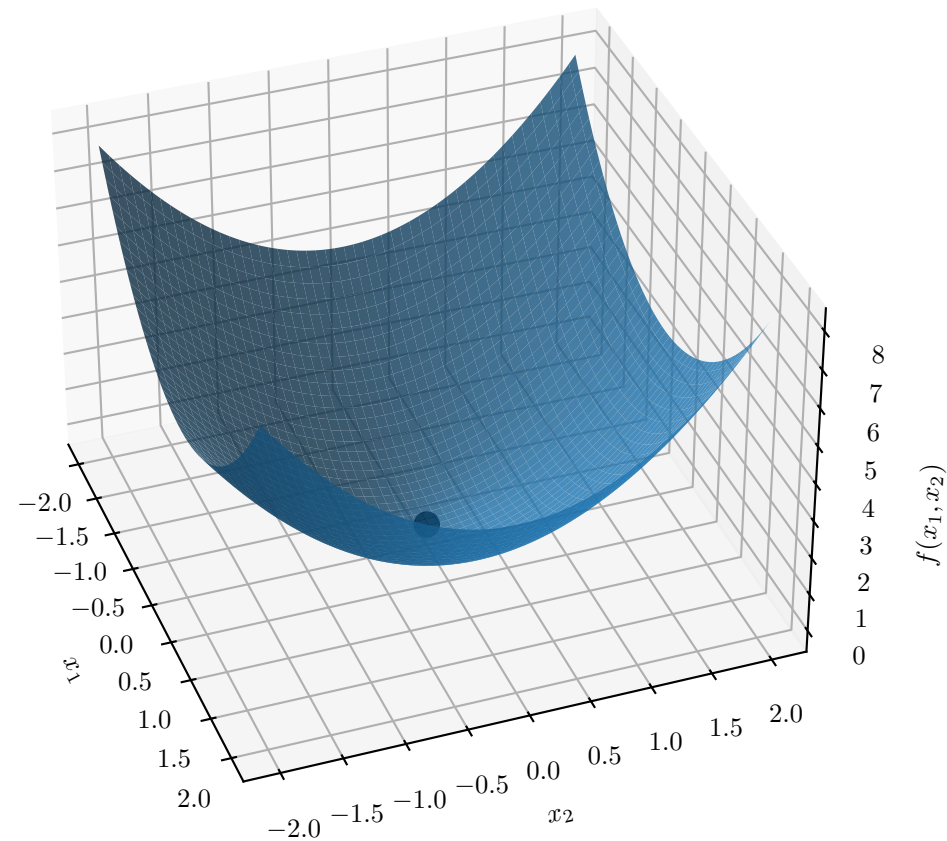
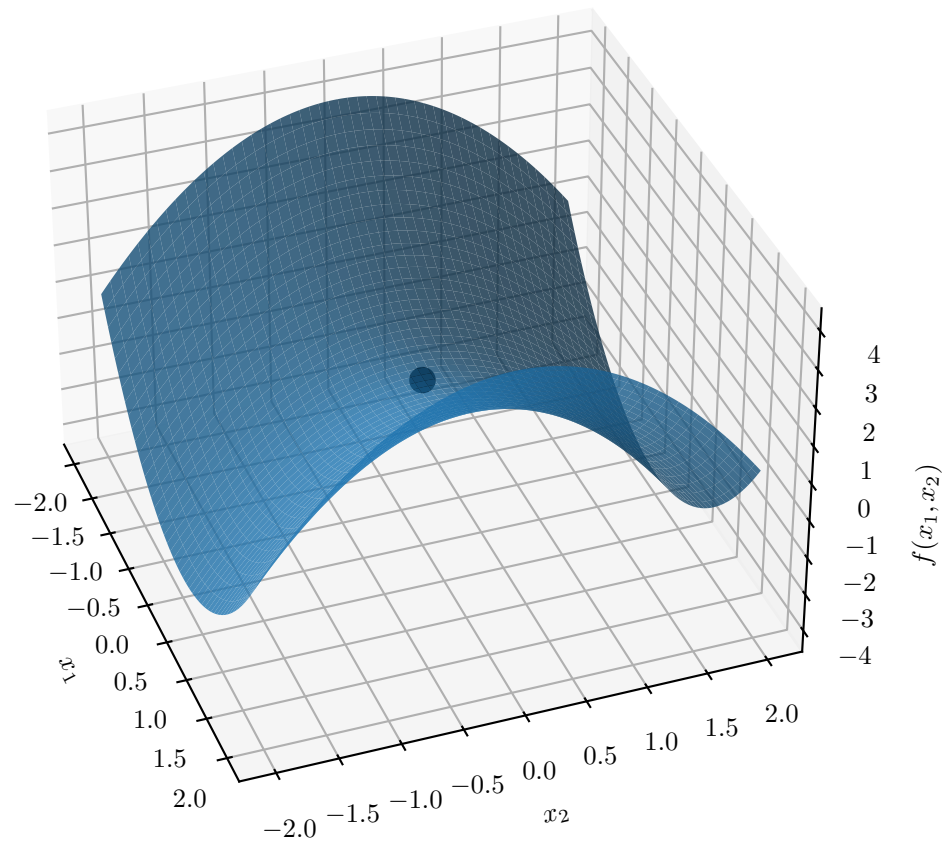


$x_1^2 + x_2^2$  (strict local min at  $(0,0)$ )



$x_1^2 - x_2^2$  (saddle at  $(0,0)$ )



$x_1^4 + x_2^4$  (SOSC inconclusive at  $(0,0)$ )

