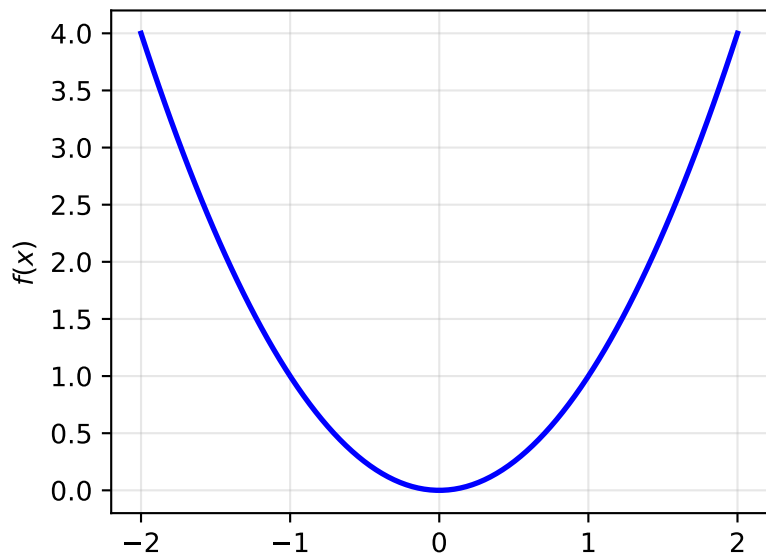
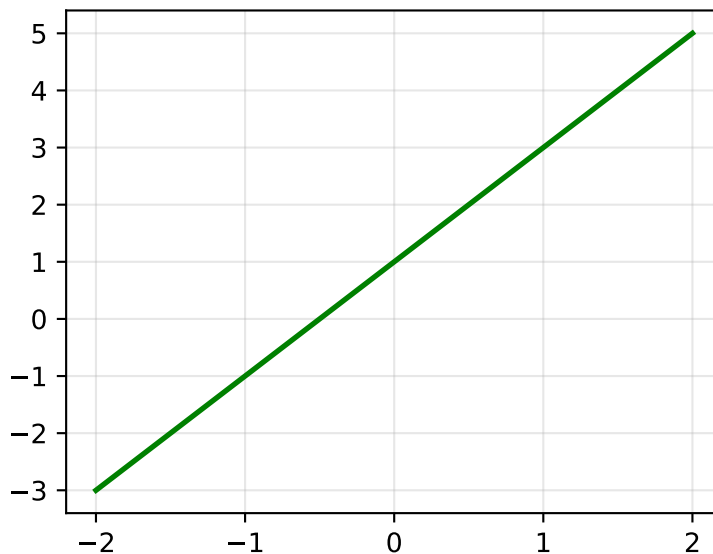


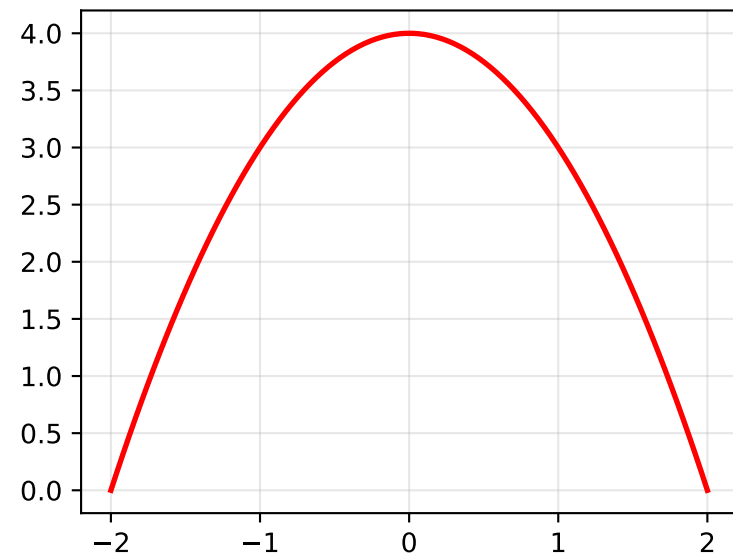
Bowl: positive curvature
 $f(x) = x^2$



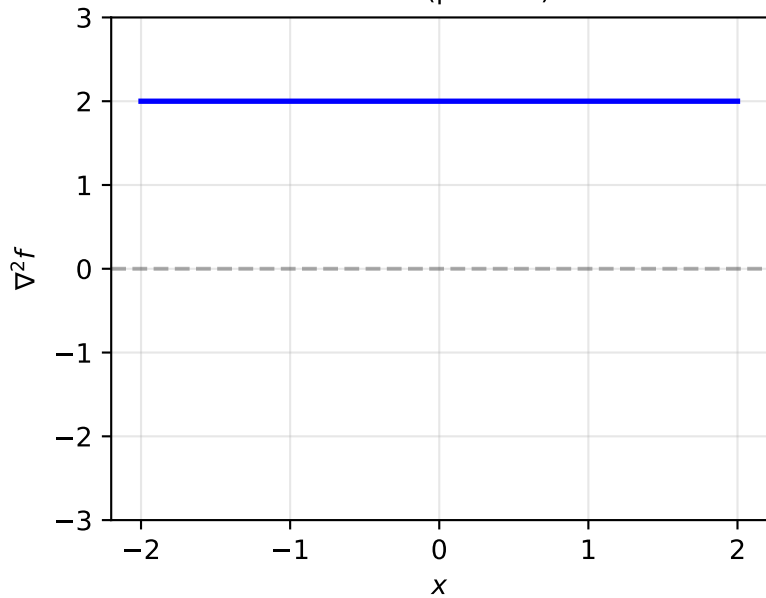
Flat: zero curvature
 $f(x) = 2x + 1$



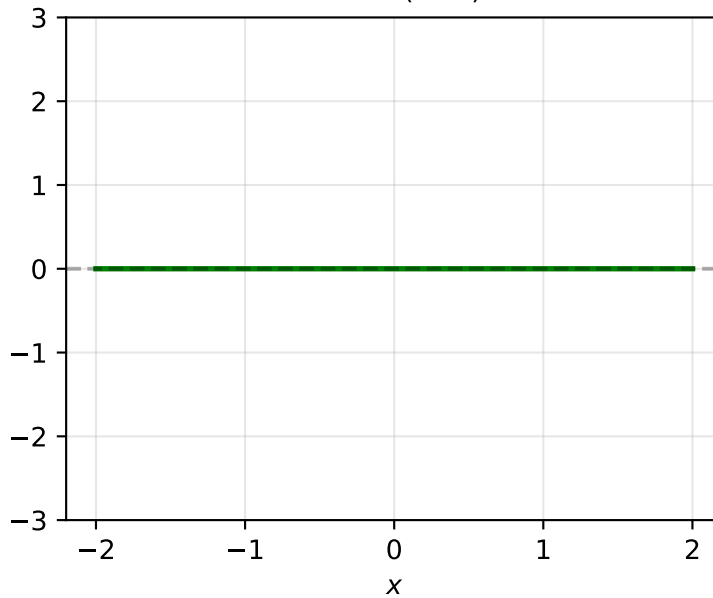
Peak: negative curvature
 $f(x) = -x^2 + 4$



$\nabla^2 f = 2$ (positive)



$\nabla^2 f = 0$ (zero)



$\nabla^2 f = -2$ (negative)

