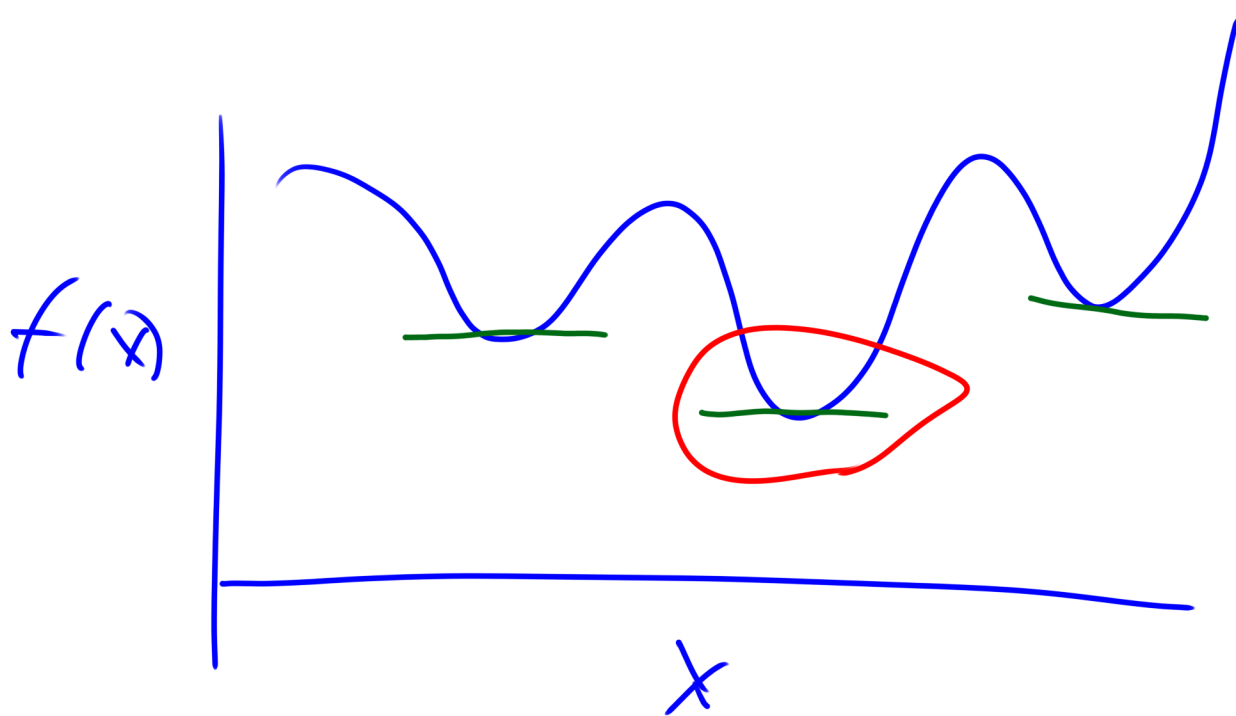


Opt. latchess

$$f\left(\begin{bmatrix} x \\ y \end{bmatrix}\right) = x^2 + y^2 - \frac{x}{10} + \cos(2x)$$

$$x_0 = [-0.5, 0.75]^T = \begin{bmatrix} -0.5 \\ 0.75 \end{bmatrix}$$



$f(x)$  is continuous  
differentiable

$$\frac{d}{dx} f(x) = 0$$

global minimum

minimum of all minimums

$$\nabla f(x) = \vec{0}$$