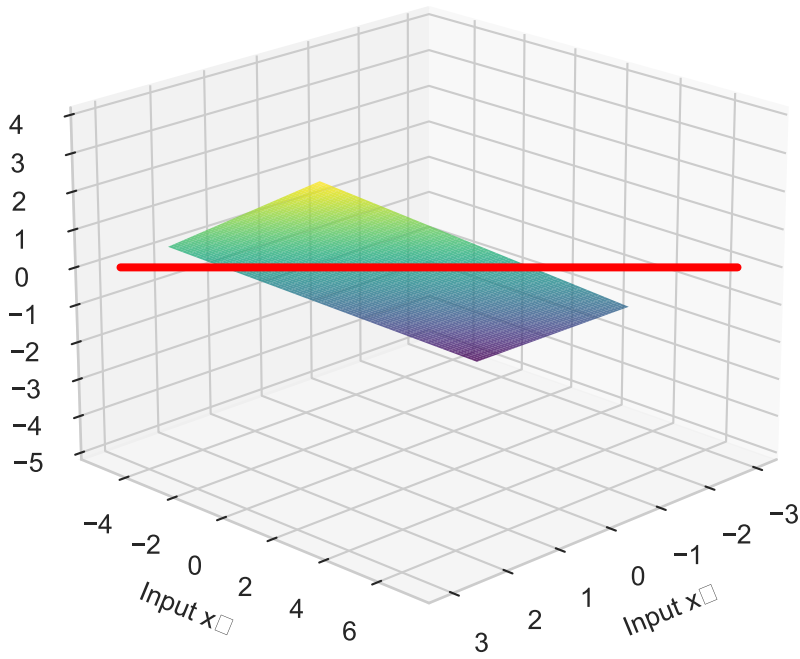
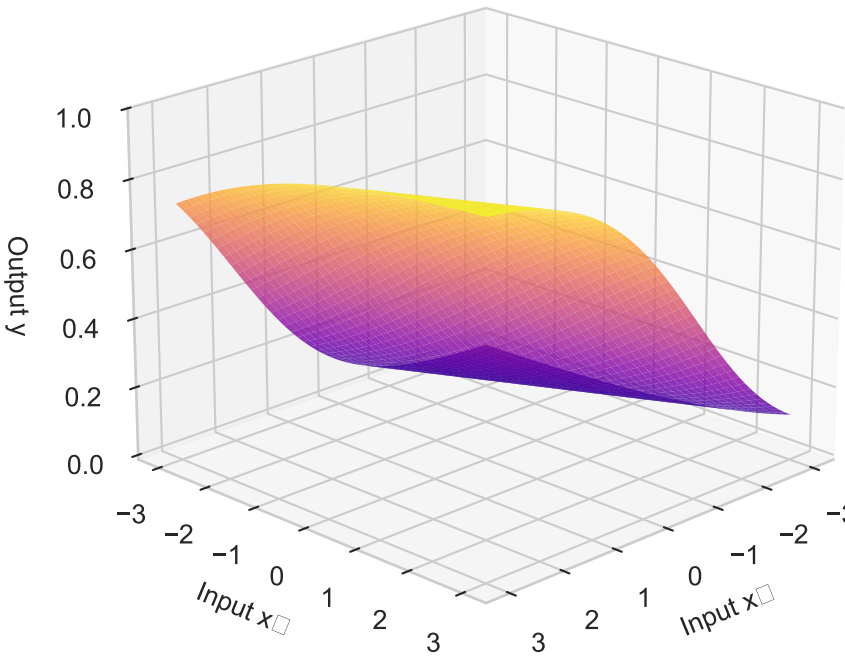


Single Neuron Visualization: Effect of Activation Functions

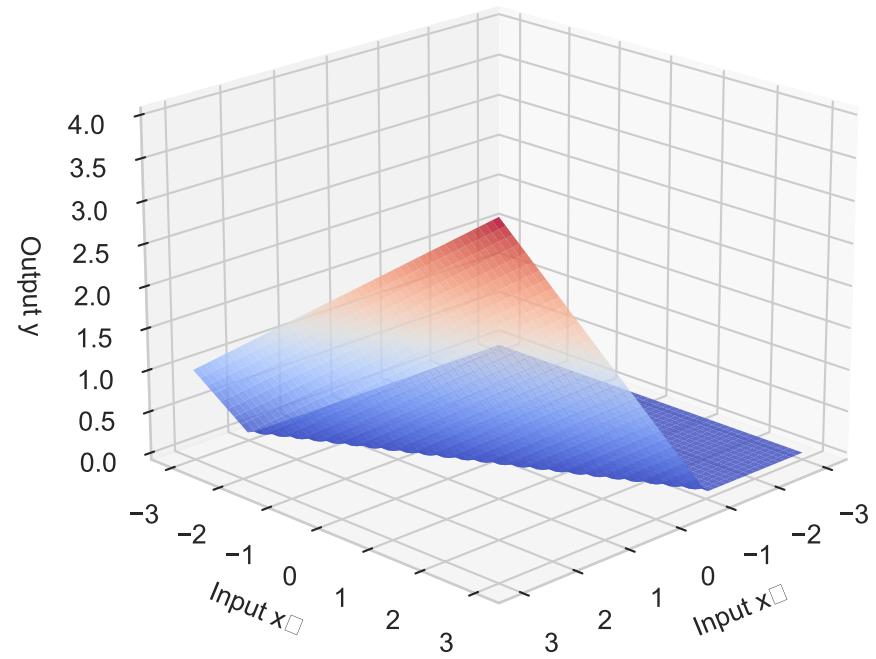
Linear (No Activation)
 $z = w_1x_1 + w_2x_2 + b$



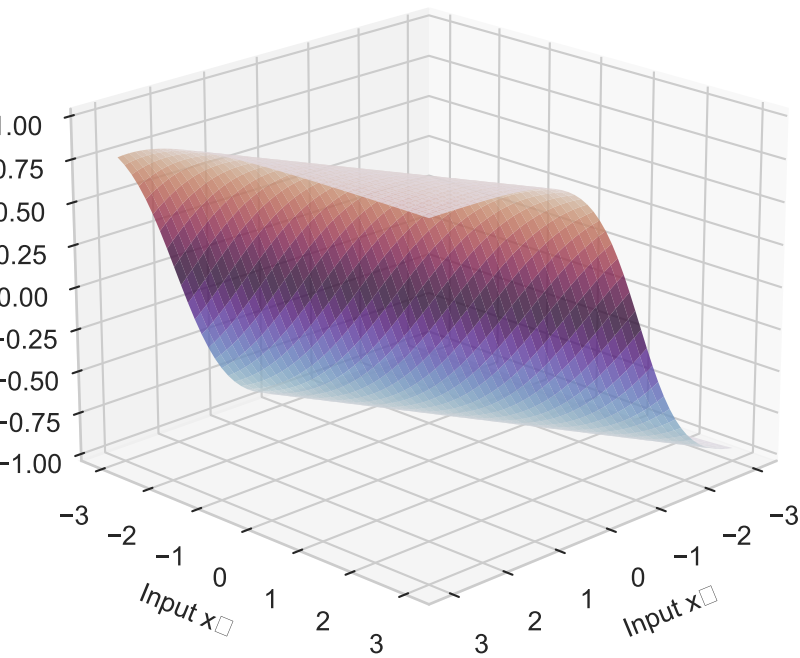
Sigmoid Activation
 $y = 1/(1 + e^{-z})$



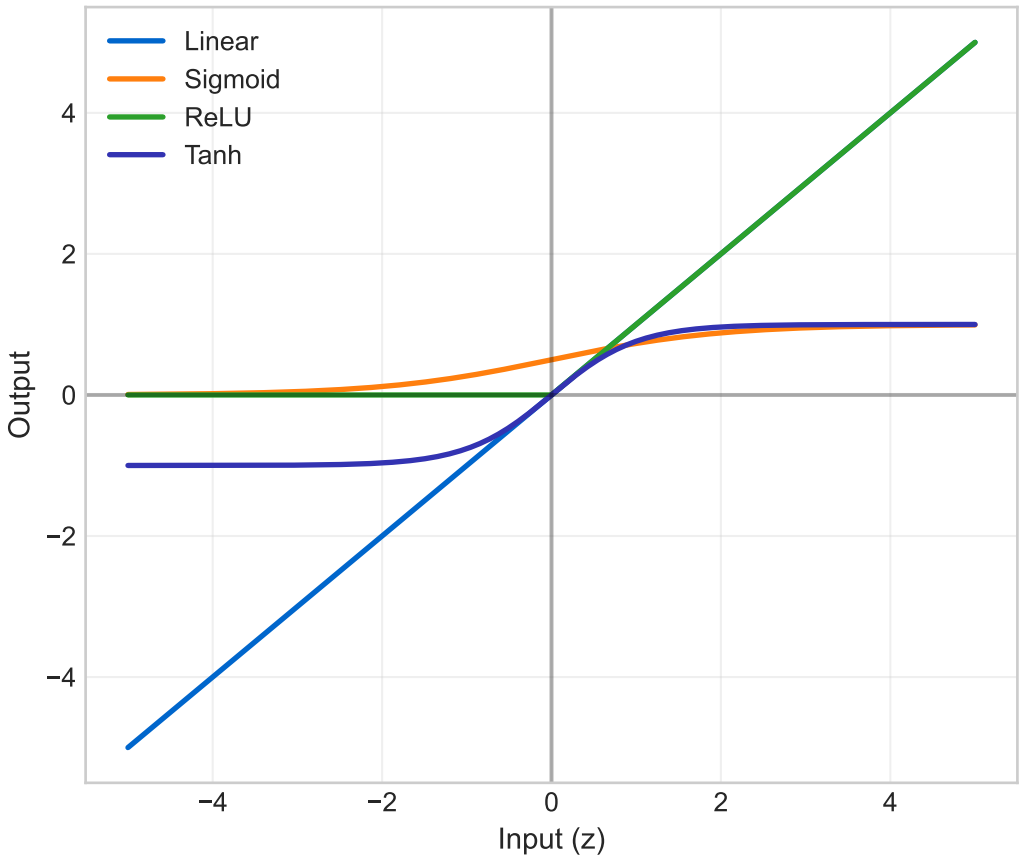
ReLU Activation
 $y = \max(0, z)$



Tanh Activation
 $y = \tanh(z)$



Activation Functions Comparison



Decision Boundaries in 2D

