

Given vector X, find the Euclidean Norm.

$$X = [54.2314 \quad -23.1234 \quad 90.8656]$$

$$Y = \sqrt{\sum_{i=1}^n |x_i|^2}$$

$$Y = \sqrt{|54.2314|^2 + |-23.1234|^2 + |90.8656|^2}$$

$$Y = \sqrt{54.2314^2 + 23.1234^2 + 90.8656^2}$$

$$Y = \sqrt{2941.04474596 + 534.69162756 + 8256.55726336}$$

$$Y = \sqrt{11732.29363688}$$

$$Y = 108.3157127884962$$