What is the function hθ(x)= θ0 + θ1 x called?

b) Cost function.

What does the function hθ(x)= θ0 + θ1 x represent?

b) Single variable linear regression.

Is vector norm related to the cost function (True/false).

Explain why in brief.?

Yes

Vector norm square and divide by m this give the cost function

Or norm square is the dot product of different between the true and predicted value by it self then divide by m this gives the cost function

The function shown in the figure represents the ……. cost function.?

b) mean square error

Gradient descent can work with non differentiable loss function (True/False).

Explain why in brief.?

False

Gradient descent is the first order iterative optimization algorithm for finding a local minimum of a differentiable function.