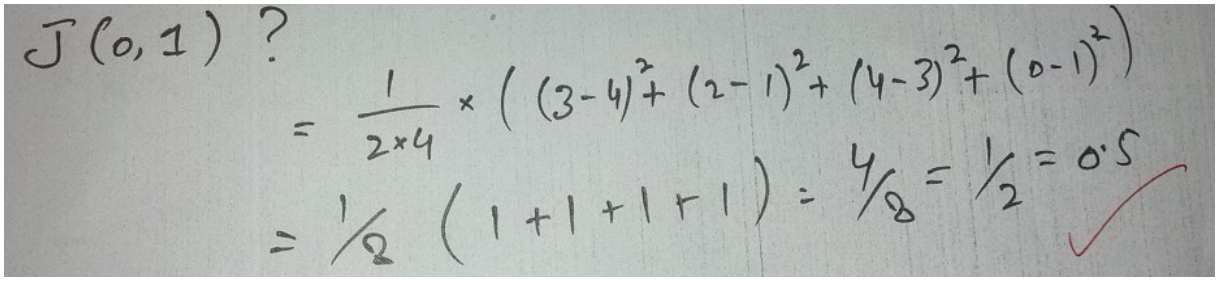
Quiz 1: Data Science **Total Marks: 10**
2017-02-14

Name: ---------- Registration #: ----------

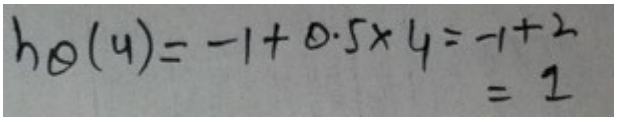
Question 1: (3 marks)

Solution:

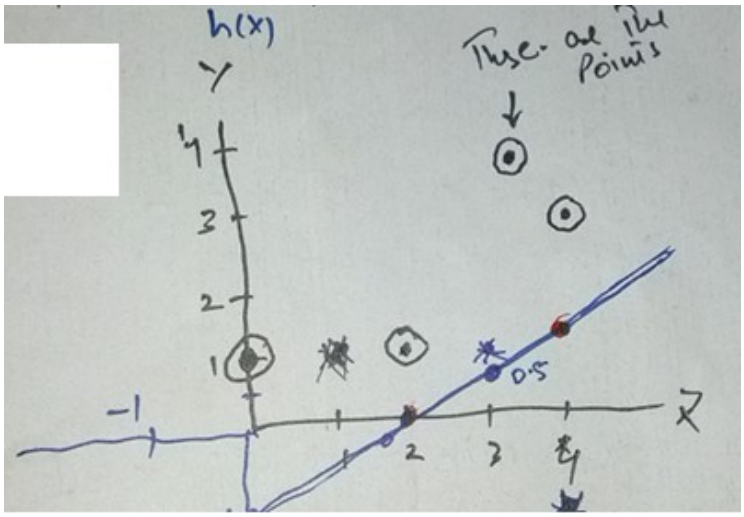


Question 2: (3 marks)

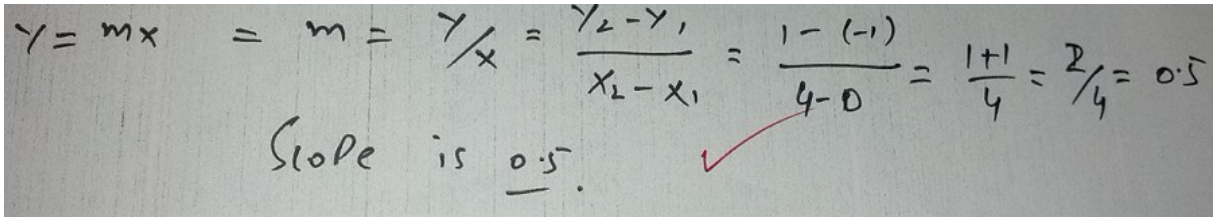
Solution:



Solution Part 1 and Part II:



Solution Part 3:



Quiz 1: Data Science **Total Marks: 10**
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Question 3: (2 marks)

Solution:

Θ = 6 x 1

X = 23 x 1

y = 23 x 6

Question 4: (1 mark)

d. The normal equation, since it provides an efficient way to directly find the solution.

Question 5: (1 mark)

Find the local optimum (either maximum or minimum) of function **$g(x) = x^3 - 9x^2 + 15x - 7$**.

(Note: you can use calculus to calculate the local optimum for this function)

Solution: Take derivative and just find value of X.