

Correction Notes - Assignment 2

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Task 2.1: a)

Seems correct, but your normalized probabilities seem weird. Take the measurement A for example: you there values before normalization $[3.2949760710910247e-25, 4.989591369871983e-08, 0.17500650733785517, 1.4217391347576257e-05]$. So the probability for x_3 seems much higher than for all the other states and this difference is drastic. After normalization you have however: $[0.23859127, 0.23859128, 0.28422279, 0.23859466]$. Here the state x_3 still has higher probability, but the difference between the states is weirdly low. This is because you subtracted the max before dividing by the sum which was not necessary to do.

Points: 3/4

Task 2.1: b)

Seems correct, but the same problem as above

Points: 4/4

Task 2.1: c)

Not handed in.

Points: 0/4

Task 2.2)

Correct,

Points: 4/4

Task 2.3)

Correct, but state the commonalities and difference more explicitly if this question comes up in the exam.

Points: 3/4

Total Points: 14/20 Points