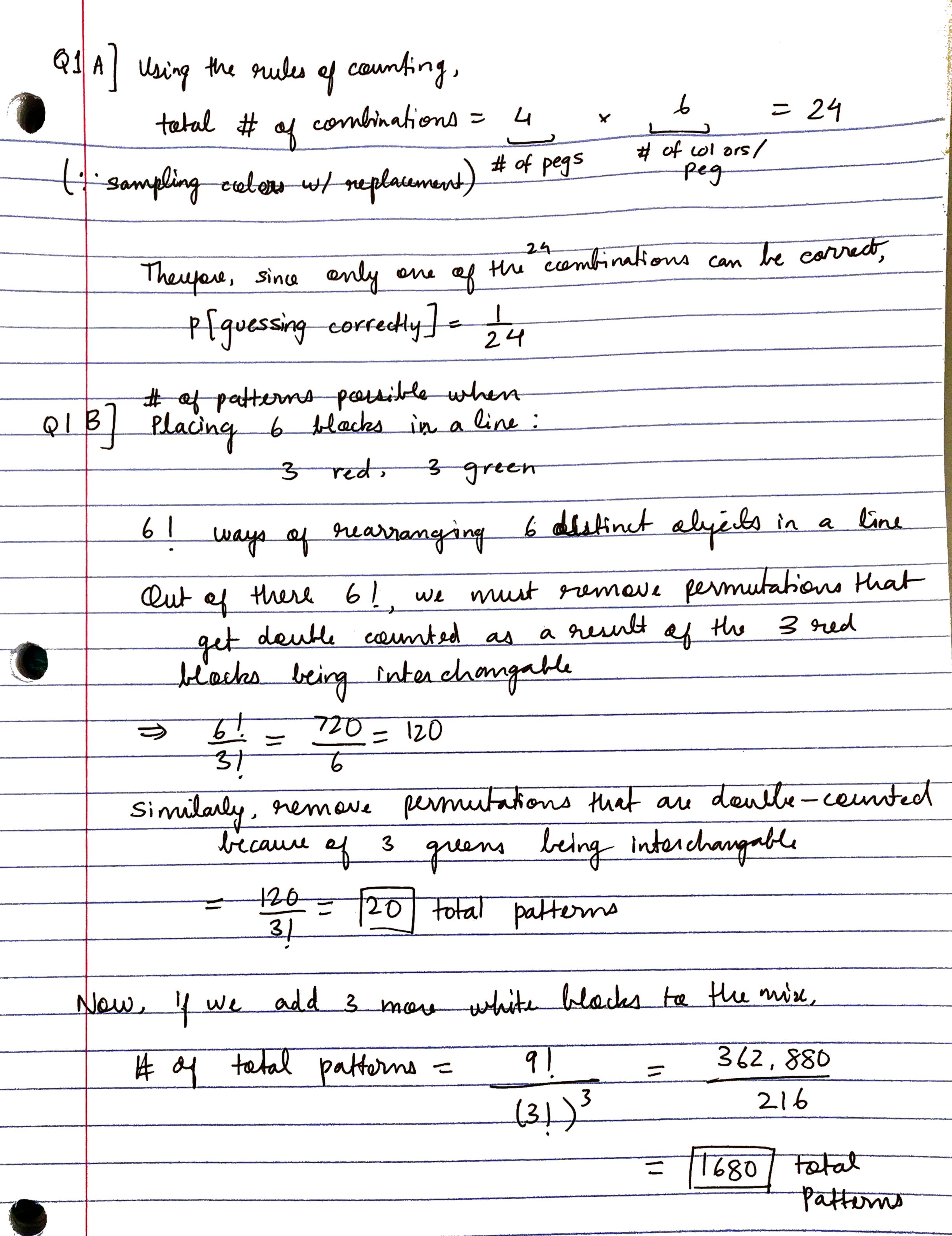
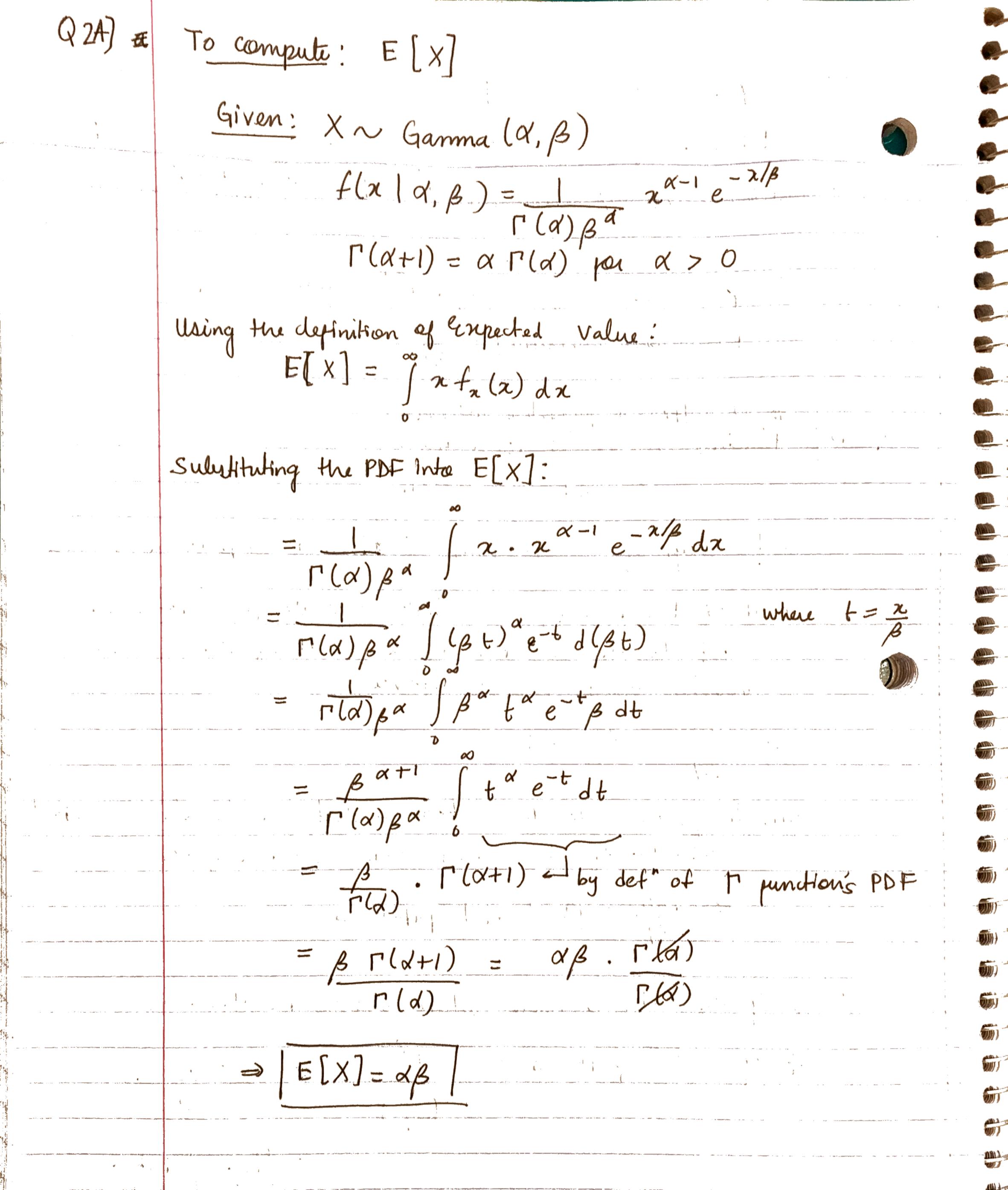
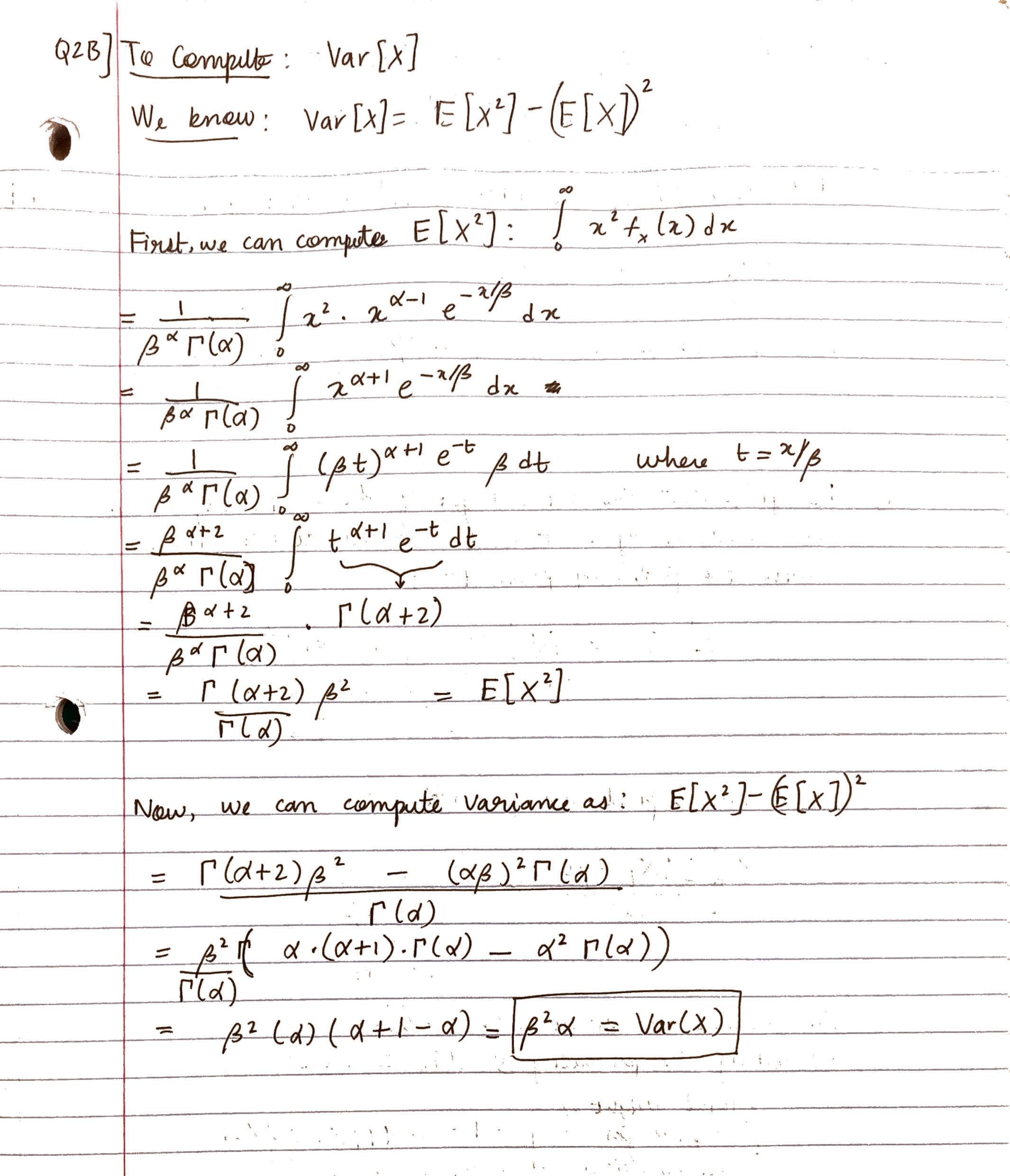
**Problem 1**



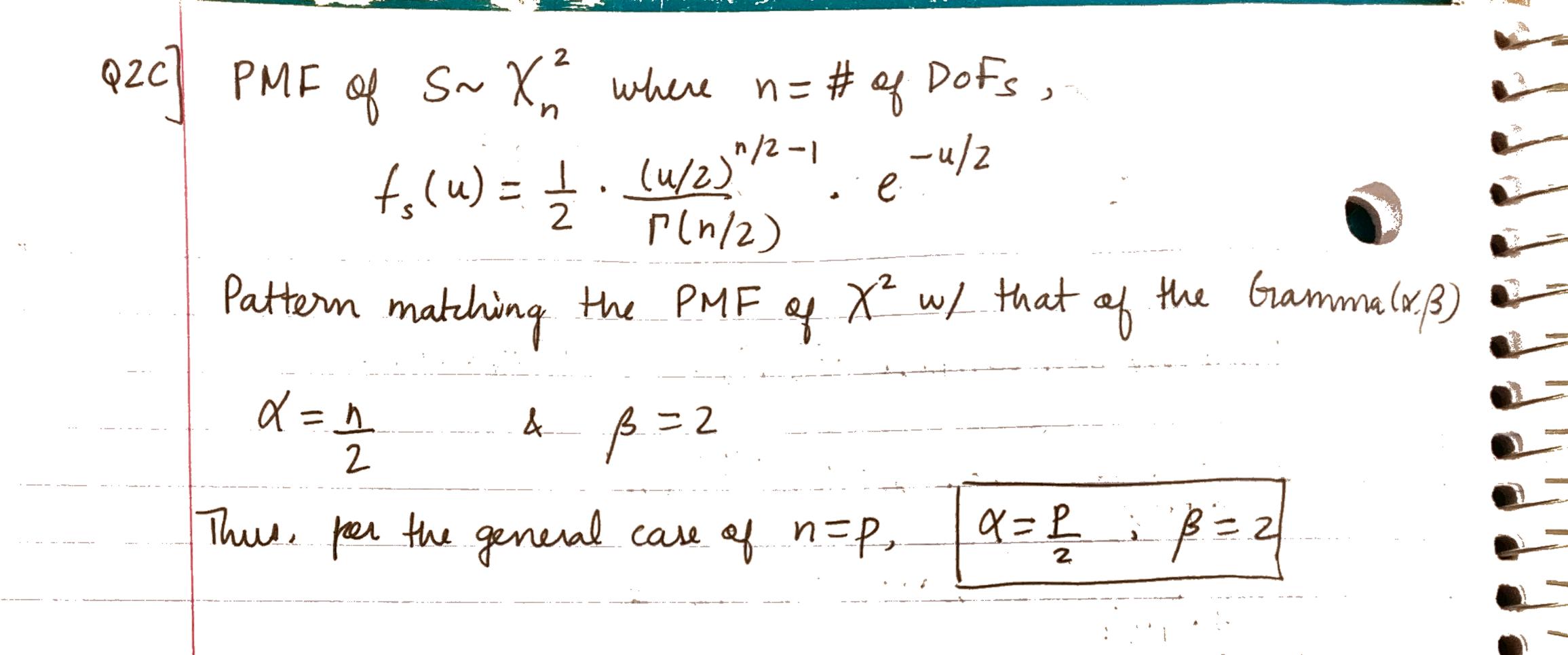
**Problem 2A**



**Problem 2B**



**Problem 2C**



**Problem 3**

Determining MGF

Text, letter

Description automatically generated

Mean

A picture containing text, document

Description automatically generated

Variance

Text, letter

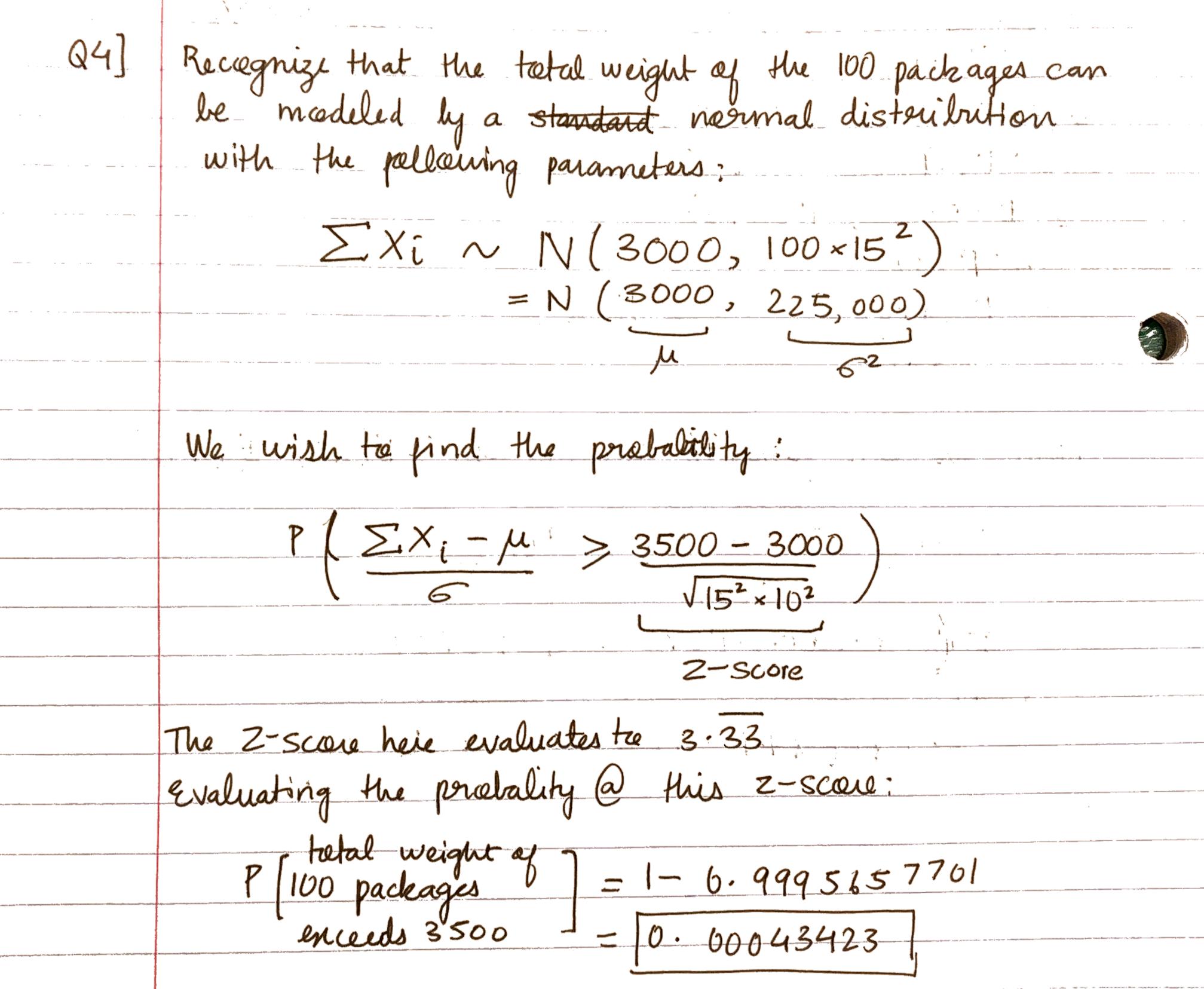
Description automatically generated

Third Moment

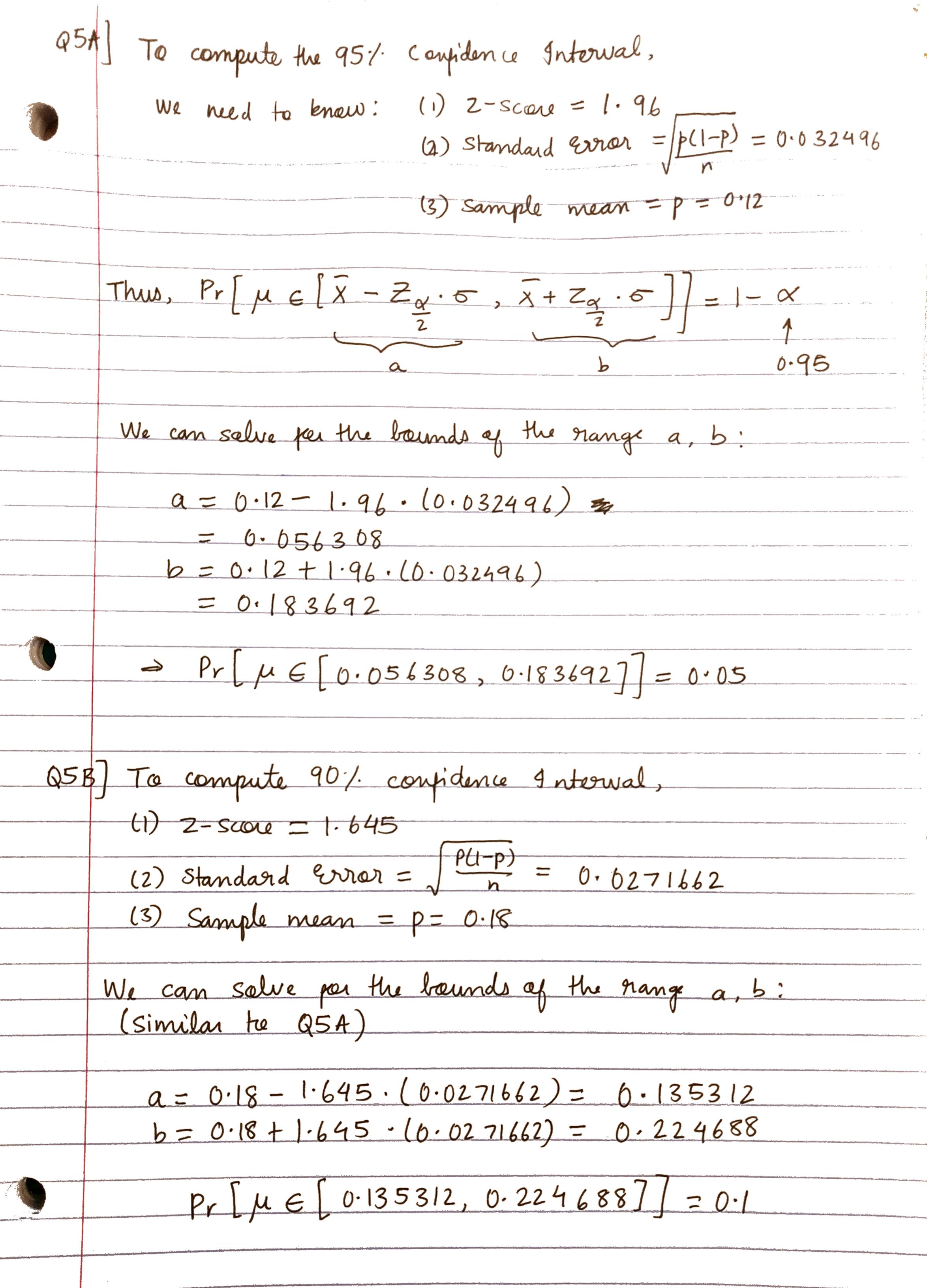
A picture containing text

Description automatically generated

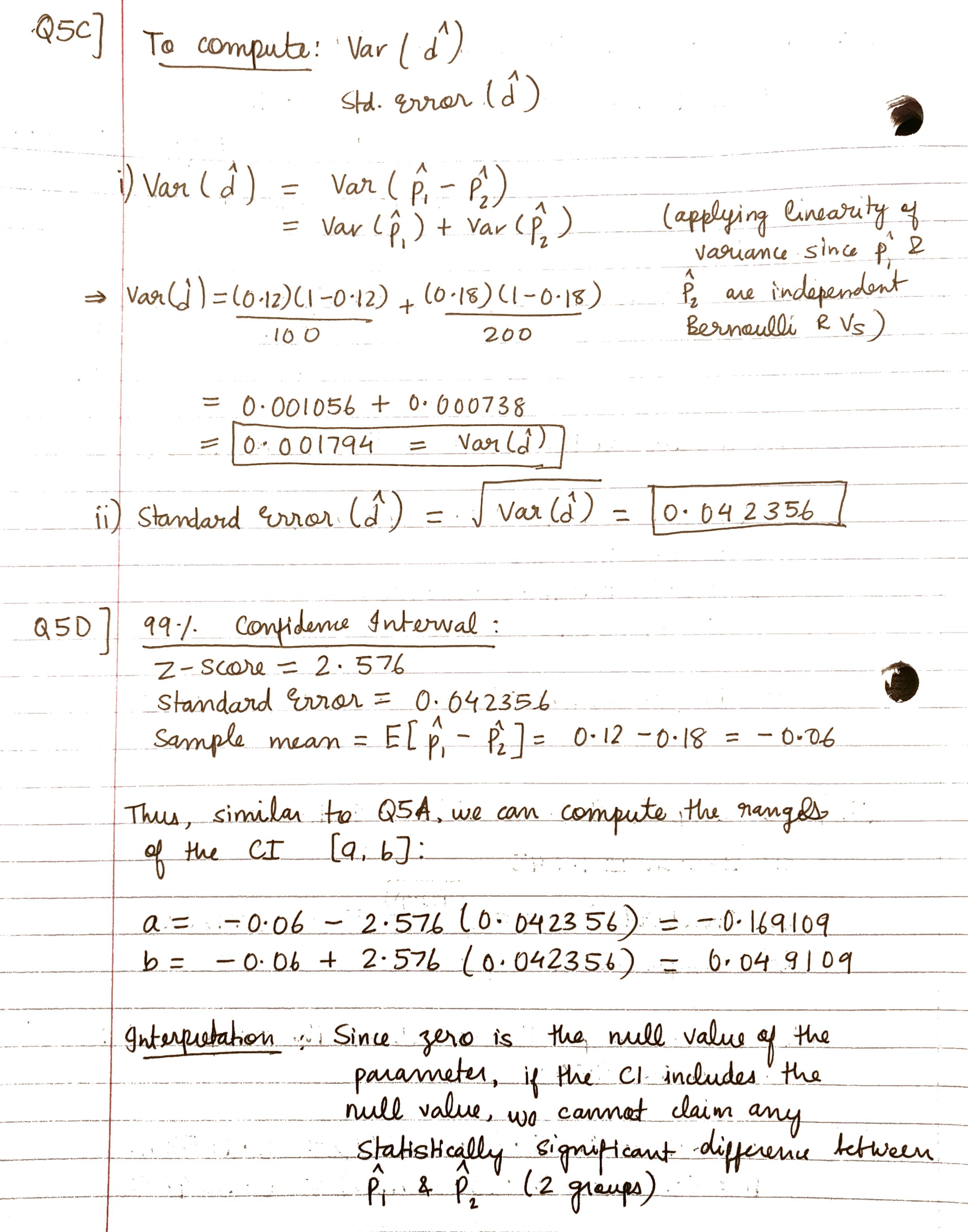
**Problem 4**

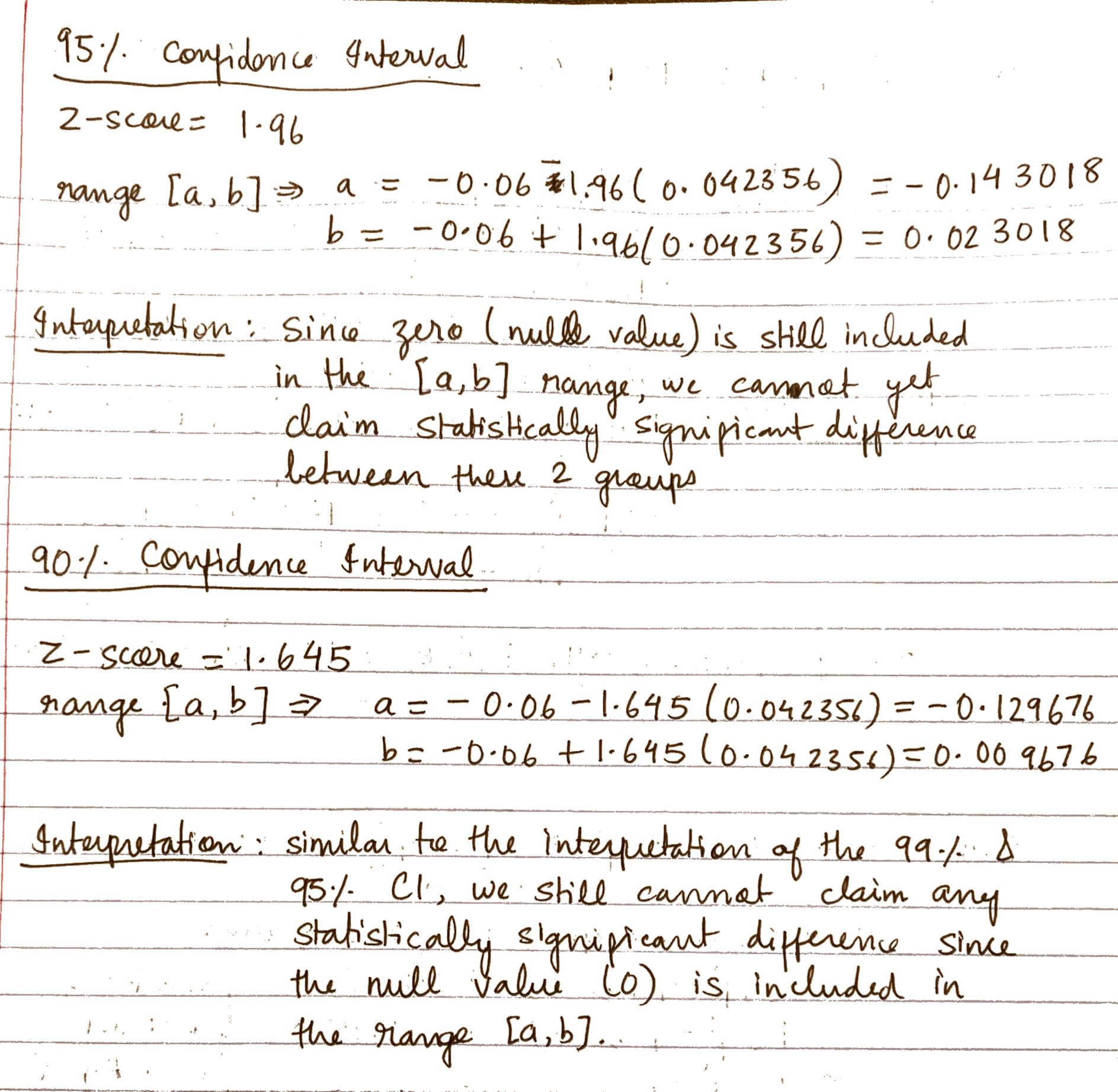


**Problem 5A and Problem 5B**

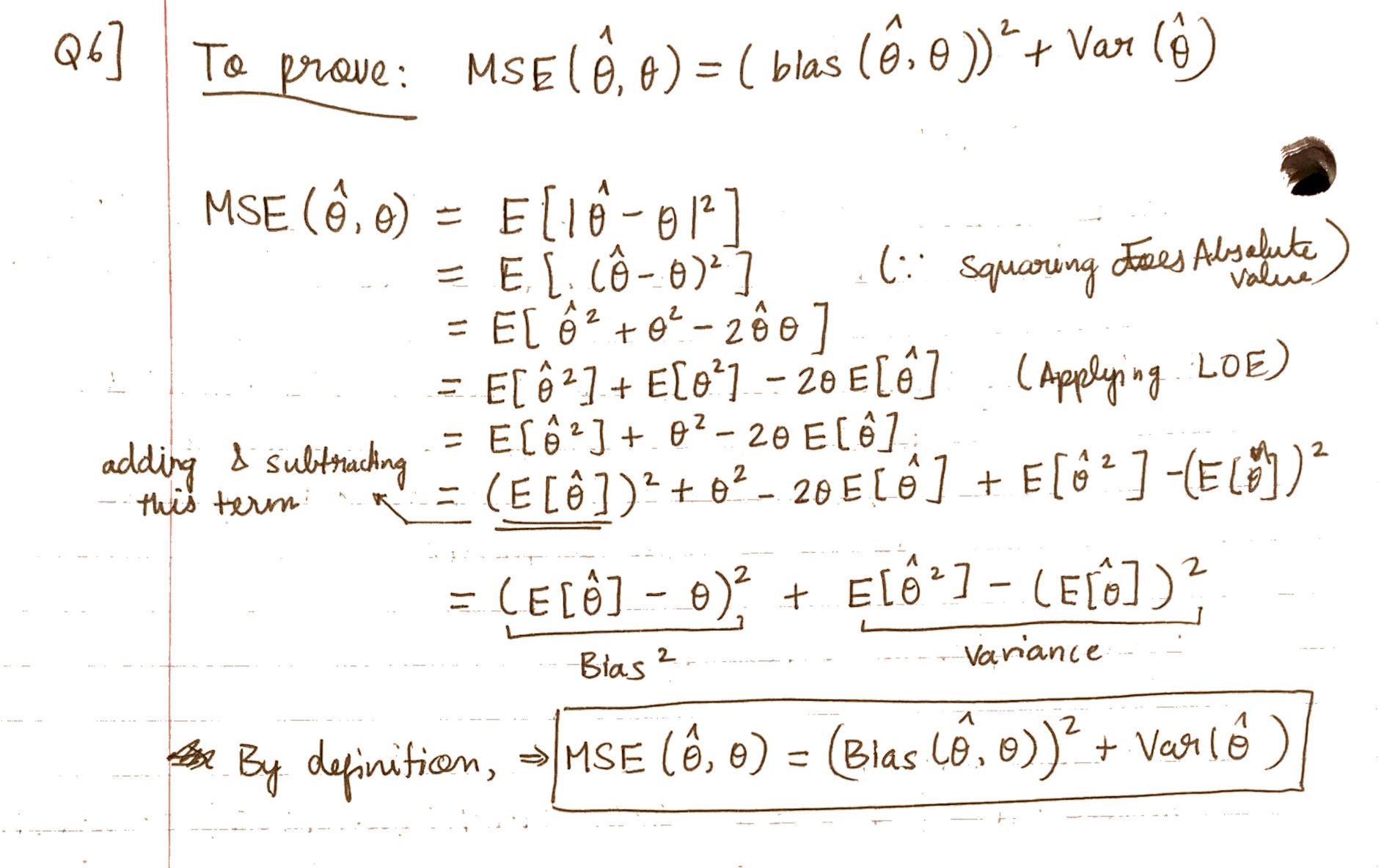


**Problem 5C and Problem 5D**

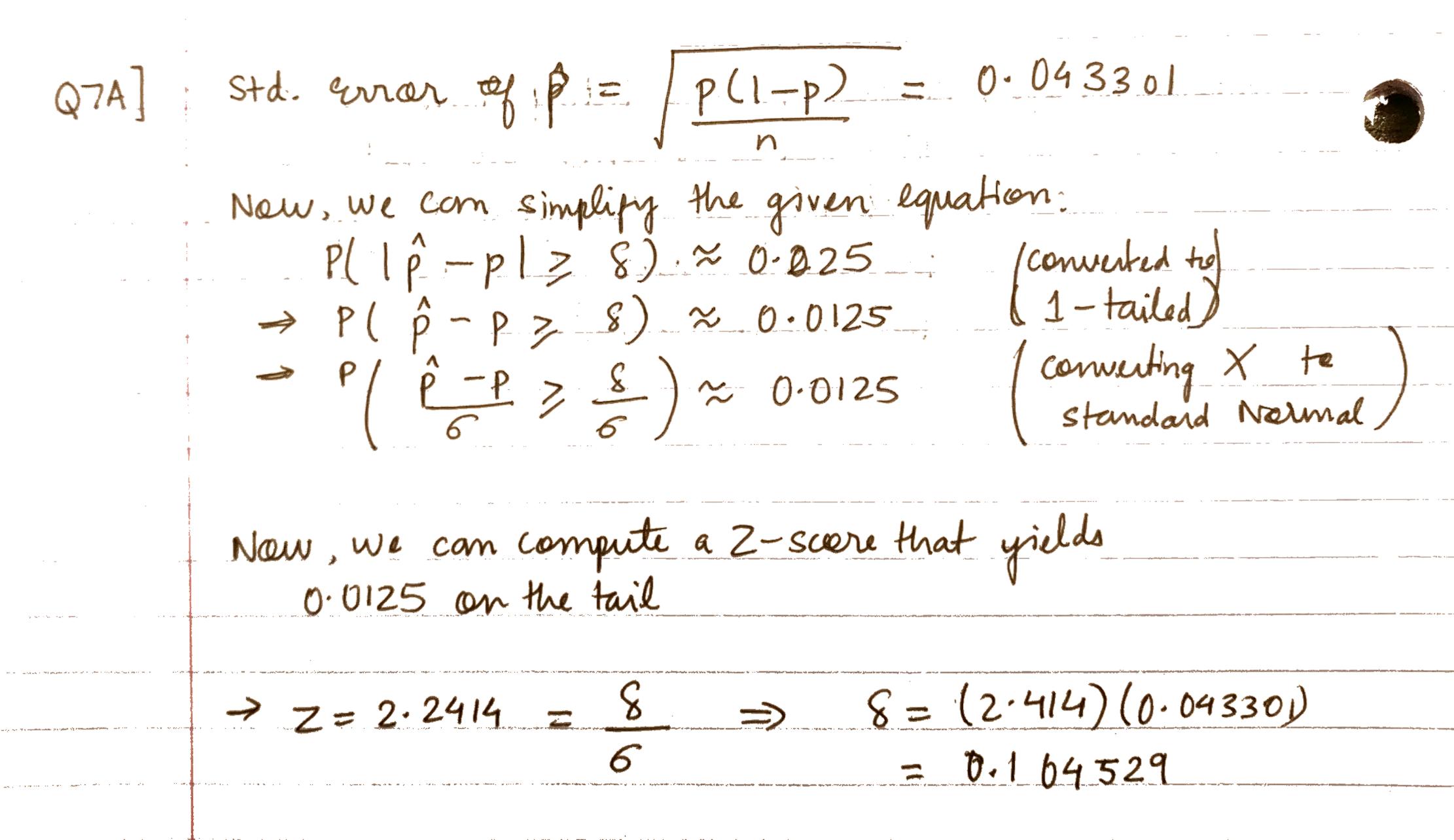




**Problem 6**



**Problem 7A**

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**Problem 7B**

**Text, letter

Description automatically generated**