ENGINEERING TRIPOS PART II A

EIETL

MODULE EXPERIMENT 3F3

RANDOM VARIABLES and RANDOM NUMBER GENERATION Short Report Template

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This is a template suitable for the short report write-up. Simply edit the Latex or Word document to include your calculations/ results/ code.

1. **Uniform and normal random variables.** Histogram of Gaussian random numbers overlaid on exact Gaussian curve (scaled):

Histogram of Uniform random numbers overlaid on exact Uniform curve (scaled):

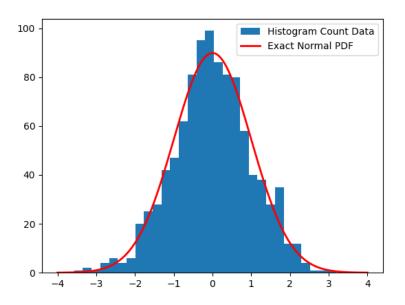


Figure 1: Histogram of Gaussian random numbers overlaid on exact Gaussian curve

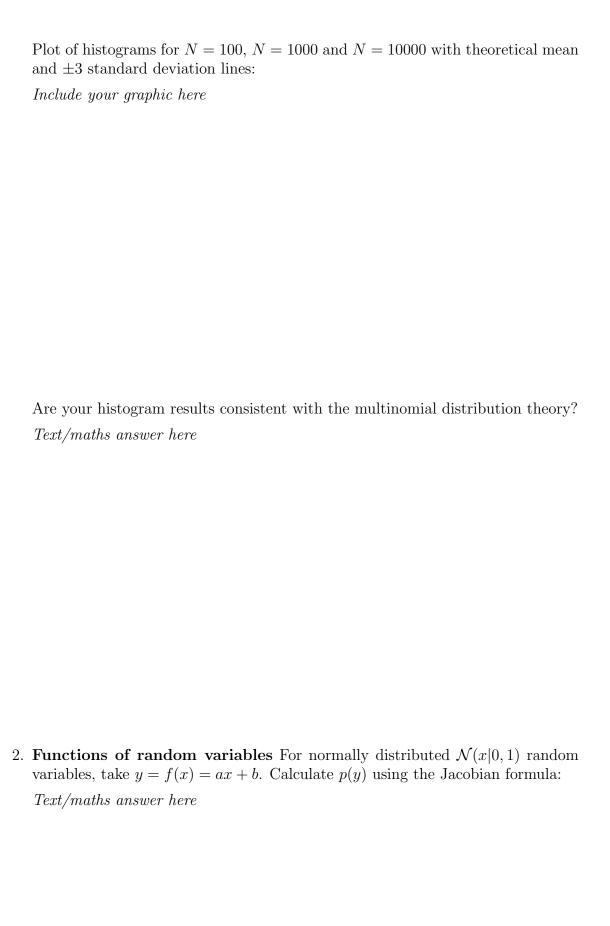
Kernel density estimate for Gaussian random numbers overlaid on exact Gaussian curve:

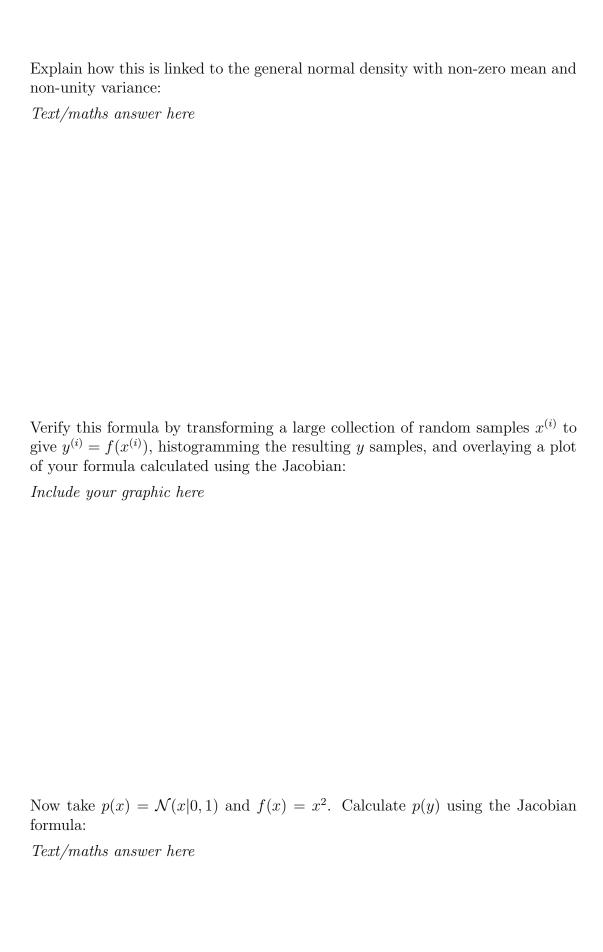
Include your graphic here

Kernel density estimate for Uniform random numbers overlaid on exact Gaussian curve:

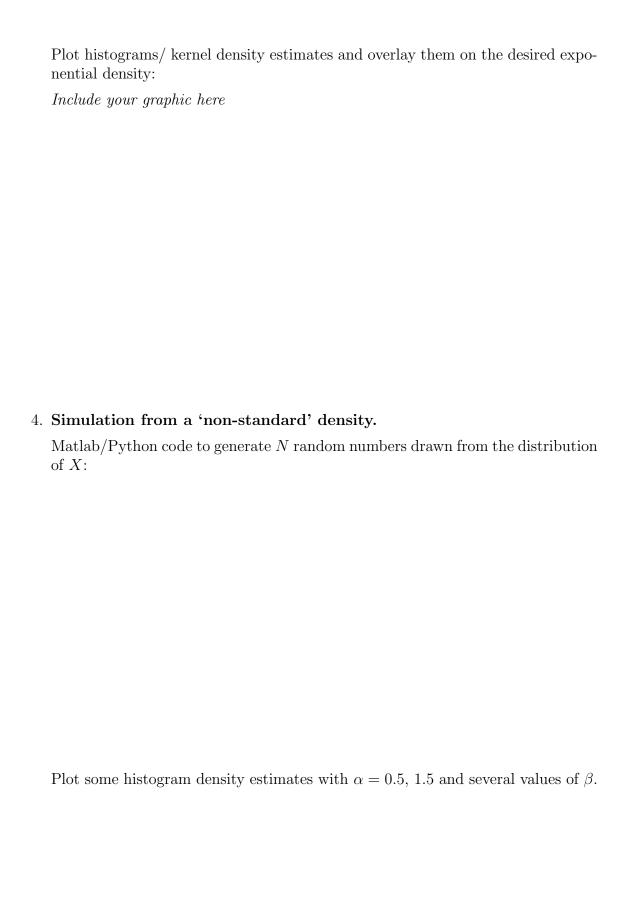
Include your graphic here











Hence comment on the interpretation of the parameters α and β .