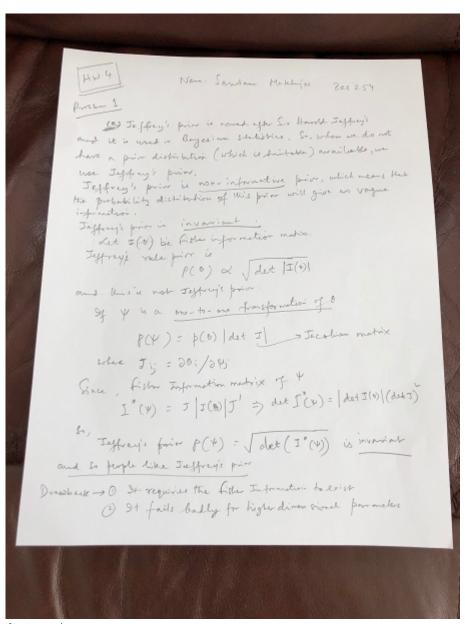
# HW4 R Markdown

Santanu Mukherjee 11/7/2021

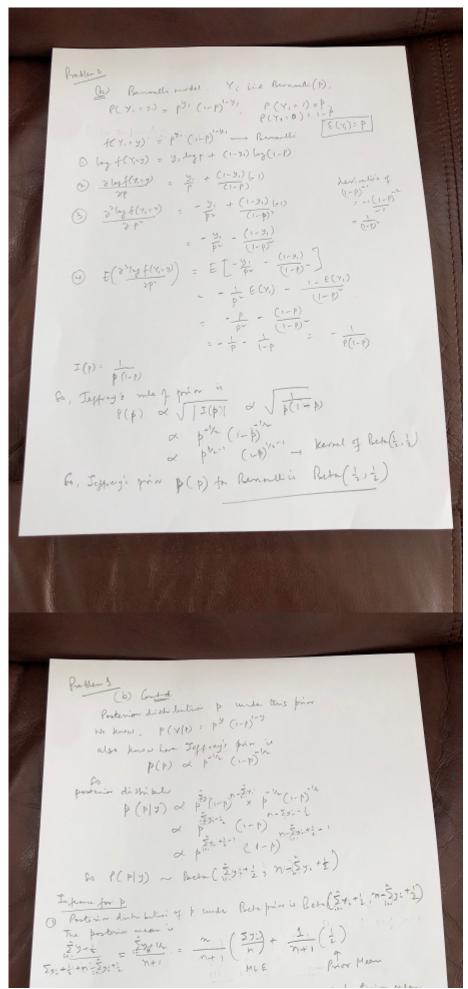
# R Markdown

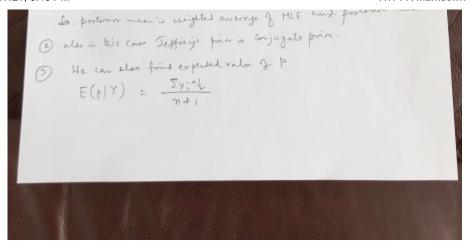
#### **Answer 1a**



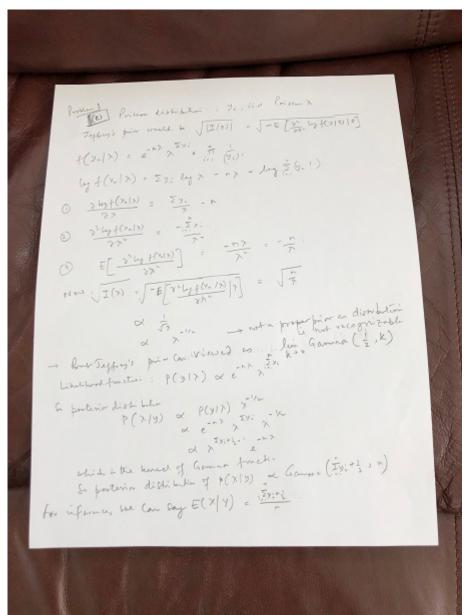
Answer-1-a

Answer 1 b



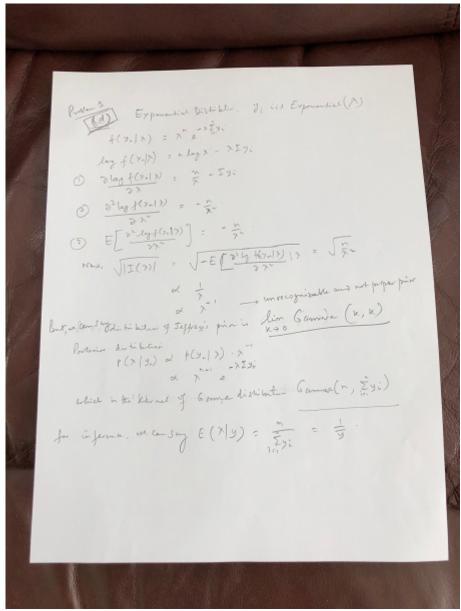


Answer 1 c



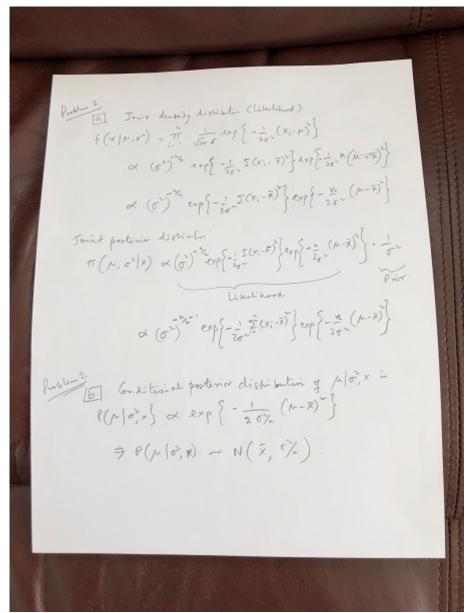
Answer-1-c

#### Answer 1 d



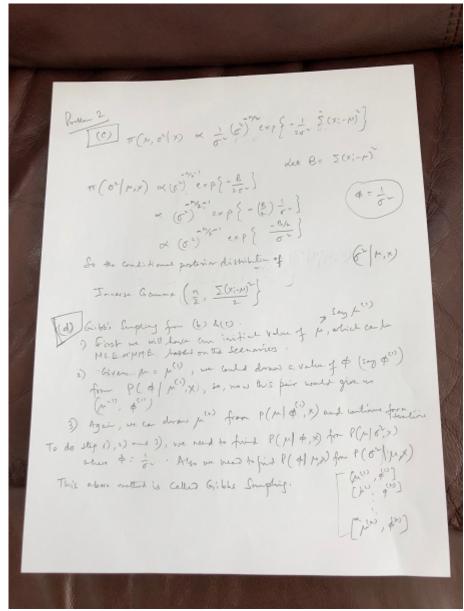
Answer-1-d

## Answer 2 a and 2 b



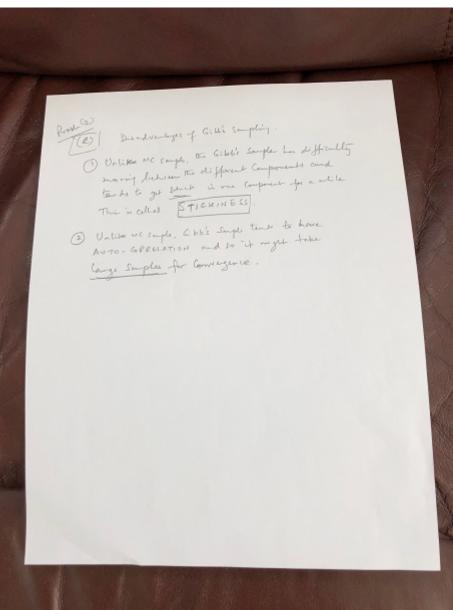
Answer-2-a-b

Answer 2 c and 2 d



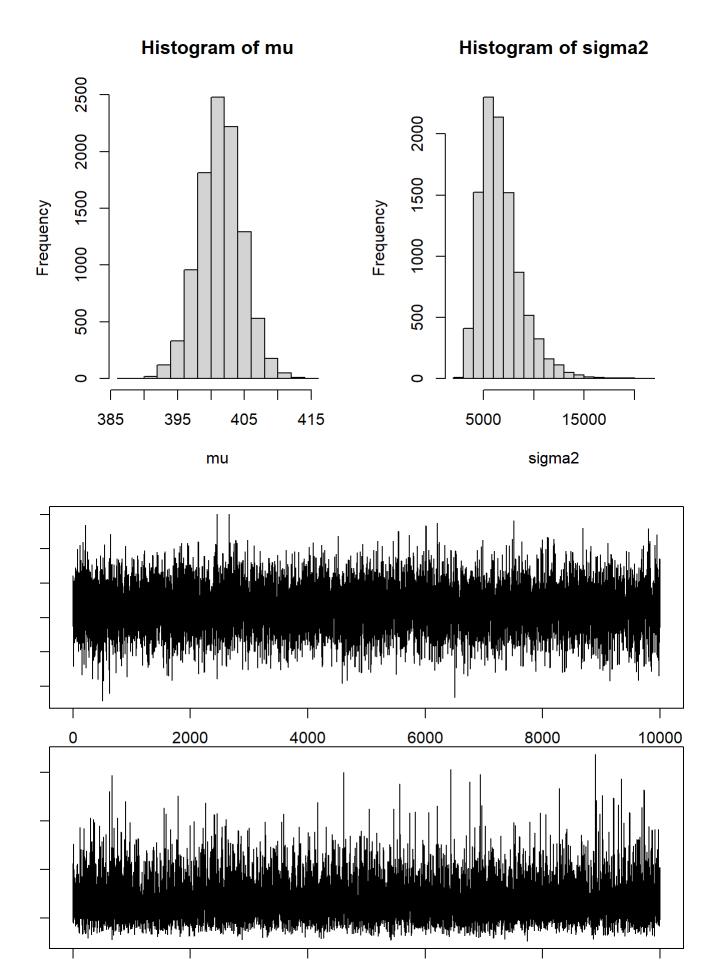
Answer-2-c-d

## Answer 2 e



Answer-2-e

# **Answer 2f**



The 95% credible interval for  $\mu$  is displayed below :

```
## 2.5% 97.5%
## 394.9349 407.9236
```

The 95% credible interval for  $\sigma^2$  is displayed below :

```
## 2.5% 97.5%
## 3770.402 11868.201
```