

# Stat 532 Assignment 2

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1.
  - Gelman et al defines probabilities as numbers associated with outcomes which are “nonnegative, additive over mutually exclusive outcomes, and sum to 1 over all possible mutually exclusive outcomes” (BDA3, §1.5, p. 11).

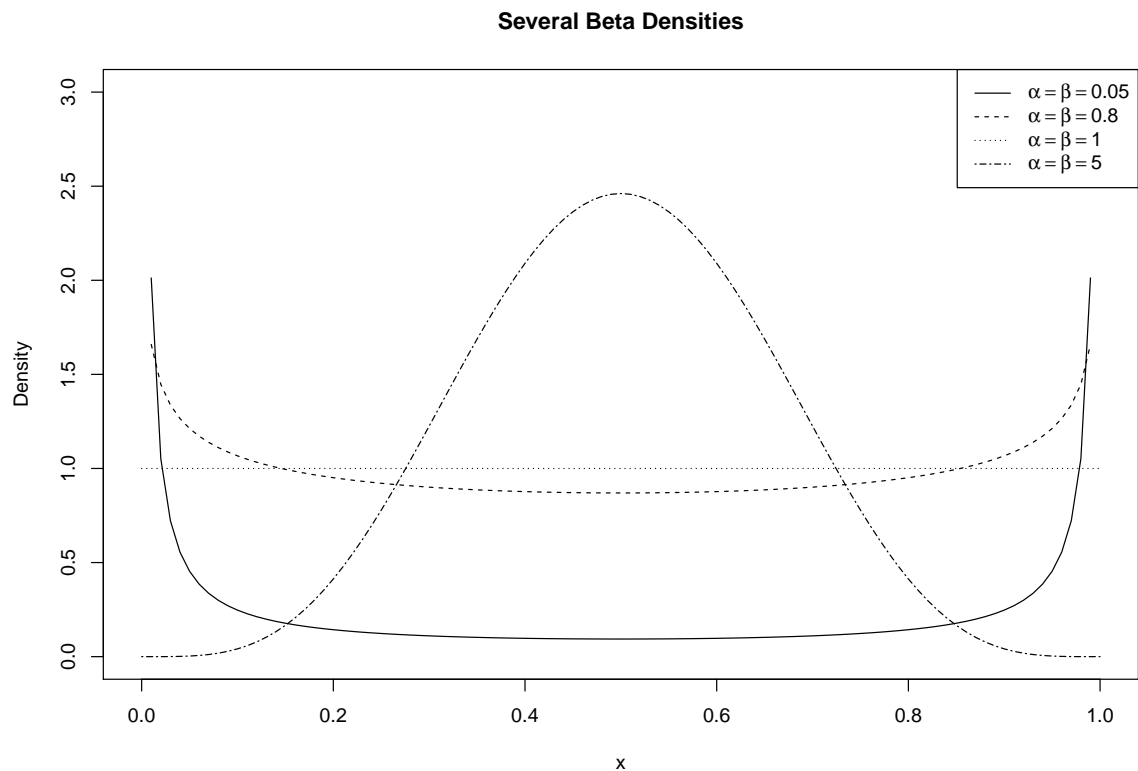
- 

2.

3.

4.

5.



6.

7.

8. (a)

- (b)
- 9.
- 10. (a)
- (b)
- (c)
- (d)
- (e)
- (f)
- (g)
- 11.
- 12.
- 13.
- 14.
- 15. (a)
- (b)
- 16. (a)
- (b)
- (c)
- 17.

## R Code Appendix

### Problem 1

```
opts_chunk$set(fig.width = 10, fig.height = 5,  
               out.width = '\\linewidth', out.height = '0.5\\linewidth',  
               dev = 'pdf')  
require(xtable)
```