

# STT 5811 HW01 (IMS2E Section 2.5)

PUT YOUR NAME HERE

Last updated Sat, Jan 10, 2026 @ 03:39 PM

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## Instructions

Complete all of the even-numbered exercises in **Introduction to Modern Statistics (2e), Section 2.5**.  
Use complete sentences and explain your answers for those questions where you are asked to do so.

## Exercises

### Exercise 2

ERASE AND TYPE YOUR ANSWER HERE

### Exercise 4

- ERASE AND TYPE YOUR ANSWER HERE
- ERASE AND TYPE YOUR ANSWER HERE

### Exercise 6

- ERASE AND TYPE YOUR ANSWER HERE

b. ERASE AND TYPE YOUR ANSWER HERE

### **Exercise 8**

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE
- c. ERASE AND TYPE YOUR ANSWER HERE
- d. ERASE AND TYPE YOUR ANSWER HERE

### **Exercise 10**

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE

### **Exercise 12**

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE
- c. ERASE AND TYPE YOUR ANSWER HERE

### **Exercise 14**

ERASE AND TYPE YOUR ANSWER HERE

### **Exercise 16**

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE

### **Exercise 18**

ERASE AND TYPE YOUR ANSWER HERE

### **Exercise 20**

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE
- c. ERASE AND TYPE YOUR ANSWER HERE
- d. ERASE AND TYPE YOUR ANSWER HERE
- e. ERASE AND TYPE YOUR ANSWER HERE

### **Exercise 22**

ERASE AND TYPE YOUR ANSWER HERE

## Exercise 24

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE
- c. ERASE AND TYPE YOUR ANSWER HERE
- d. ERASE AND TYPE YOUR ANSWER HERE
- e. ERASE AND TYPE YOUR ANSWER HERE
- f. ERASE AND TYPE YOUR ANSWER HERE

## Exercise 26

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE
- c. ERASE AND TYPE YOUR ANSWER HERE
- d. ERASE AND TYPE YOUR ANSWER HERE
- e. ERASE AND TYPE YOUR ANSWER HERE

## Exercise 28

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE
- c. ERASE AND TYPE YOUR ANSWER HERE

## Exercise 30

- a. ERASE AND TYPE YOUR ANSWER HERE
- b. ERASE AND TYPE YOUR ANSWER HERE
- c. ERASE AND TYPE YOUR ANSWER HERE
- d. ERASE AND TYPE YOUR ANSWER HERE
- e. ERASE AND TYPE YOUR ANSWER HERE

## Session Information

```
## R version 4.5.2 (2025-10-31)
## Platform: x86_64-redhat-linux-gnu
## Running under: Red Hat Enterprise Linux 9.7 (Plow)
##
## Matrix products: default
## BLAS/LAPACK: FlexiBLAS OPENBLAS-OPENMP; LAPACK version 3.9.0
##
## locale:
##  [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
##  [3] LC_TIME=en_US.UTF-8      LC_COLLATE=en_US.UTF-8
##  [5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=en_US.UTF-8
##  [7] LC_PAPER=en_US.UTF-8     LC_NAME=C
##  [9] LC_ADDRESS=C             LC_TELEPHONE=C
## [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
```

```
##
## time zone: America/New_York
## tzcode source: system (glibc)
##
## attached base packages:
## [1] stats      graphics  grDevices utils      datasets  methods   base
##
## loaded via a namespace (and not attached):
## [1] compiler_4.5.2    fastmap_1.2.0     cli_3.6.5         tools_4.5.2
## [5] htmltools_0.5.8.1 rstudioapi_0.17.1 yaml_2.3.10       rmarkdown_2.30
## [9] knitr_1.50        xfun_0.53         digest_0.6.37     rlang_1.1.6
## [13] evaluate_1.0.5
```