## Math 1313 Homework 24 Section 7.2

- 1. The choices for problem number 6 part a (mean) from the book are given below
  - a. 231.857
  - b. 199.745
  - c. 211.375
  - d. 205.478
  - e. 202.875
- 2. Find the expected value of a random variable having the following probability distribution:

$\boldsymbol{\mathcal{X}}$	2	3	4	5	6	7	8
P(X=x)	0.350	0.200	0.245	0.125	0.066	0.010	0.004

- a. 2.890
- b. 3.403
- c. 3.205
- d. 2.998
- e. 3.580
- 3. Find the expected value of a random variable having the following probability distribution:

- a. 0.473
- b. 0.635
- c. 0.125
- d. 0.860
- e. 1.024
- 4. Find the expected value of a random variable having the following probability distribution:

$\boldsymbol{x}$	-3	-1	0	1	5
P(X=x)	3/10	1/5	1/14	1/7	2/7

- a. 1
- b.  $\frac{33}{70}$
- c.  $\frac{19}{35}$
- d.  $\frac{109}{140}$

## Math 1313 Homework 24 Section 7.2

e. 
$$\frac{33}{140}$$

- 5. The choices for problem number 20 from the book are given below.
  - a. 3.7812
  - b. 3.1952
  - c. 2.9051
  - d. 3.0153
  - e. 2.7692
- 6. The choices for problem number 28 from the book are given below.
  - a. 0.05
  - b. 0.10
  - c. 0.11
  - d. 0.08
  - e. 0.23
- 7. The choices for problem number 32 from the book are given below.
  - a. 31:19
  - b. 19:31
  - c. 0.62
  - d. 62:1
  - e. 38:1
- 8. The choices for problem number 36 from the book are given below.
  - a. 16:17
  - b. 19:31
  - c. 17:8
  - d. 8:17
  - e. 31:17
- 9. The choices for problem number 40 from the book are given below.
  - a. 2.667
  - b. 0.375
  - c. 0.727
  - d. 0.273
  - e. 0.429
- 10. The choices for problem number 50 part b from the book are given below.
  - a. 0.100
  - b. 0.111
  - c. 0.889
  - d. 0.900
  - e. 0.684