

EMCF15 – Math 1432, 13209

The answer sheet for this assignment can be found by logging into *CourseWare* at <http://www.casa.uh.edu>, selecting **Math 1432(13209)**, clicking on the **EMCF** tab at the top of the page, and selecting **EMCF15**.

Select the value that is closest to the actual amount.

1. Use the left hand endpoint method with $n = 4$ to approximate $\int_1^5 \frac{1}{x+1} dx$.

- a. 1.2833
- b. 1.2853
- c. 1.2853
- d. 1.2863
- e. 1.2873

2. Use the right hand endpoint method with $n = 4$ to approximate $\int_1^5 \frac{1}{x+1} dx$.

- a. 0.945
- b. 0.950
- c. 0.955
- d. 0.960
- e. 0.965

3. Use the trapezoid method with $n = 4$ to approximate $\int_1^5 \frac{1}{x+1} dx$.

- a. 1.1136
- b. 1.1146
- c. 1.1156
- d. 1.1166
- e. 1.1176

4. Use the midpoint method with $n = 4$ to approximate $\int_1^5 \frac{1}{x+1} dx$.

- a. 1.08975
- b. 1.08965
- c. 1.08955
- d. 1.08945
- e. 1.08935

5. Use Simpson's method with $n = 4$ to approximate $\int_1^5 \frac{1}{x+1} dx$.

- a. 1.09872575
- b. 1.09872565
- c. 1.09872555
- d. 1.09872545
- e. 1.09872535

6. Use the left hand endpoint method with $n = 4$ to approximate $\int_5^7 \frac{1}{x+1} dx$.

- a. 0.29875
- b. 0.29865
- c. 0.29855
- d. 0.29845
- e. 0.29835

7. Use the right hand endpoint method with $n = 4$ to approximate $\int_5^7 \frac{1}{x+1} dx$.

- a. 0.27752
- b. 0.27762
- c. 0.27772
- d. 0.27782
- e. 0.27792

8. Use the trapezoid method with $n = 4$ to approximate $\int_5^7 \frac{1}{x+1} dx$.

- a. 0.287935
- b. 0.287945
- c. 0.287955
- d. 0.287965
- e. 0.287975

9. Use the midpoint method with $n = 4$ to approximate $\int_5^7 \frac{1}{x+1} dx$.

- a. 0.287546
- b. 0.287556
- c. 0.287566
- d. 0.287576
- e. 0.287586

10. Use Simpson's method with $n = 4$ to approximate $\int_5^7 \frac{1}{x+1} dx$.

- a. 0.28768214
- b. 0.29868224
- c. 0.29868234
- d. 0.29868244
- e. 0.29868254