

Homework 14 (Chap. 5.1), 40.50/50.00 (81.00%)

December 1, 2019

Problem 4 score: 5/10¹

- (a) OK
- (b) NOT ok – my answer is different: 0.790766;

Problem 20 score: 7.5/10²

- (a) right endpoints' answer is OK, but for left endpoints I have different answer:
24.284400

- (b) OK

Problem 25 score: 10/10

OK

Problem 27 score: 10/10

- (a) OK
- (b) OK
- (c) OK

Problem 32 score: 8/10

30,31

- (a) OK, but strictly speaking, “ r are” not “two adjacent sides”, but rather “*lengths* of two adjacent sides”;
- (b) NOT ok, why

$$\lim_{n \rightarrow \infty} \frac{nr^2}{2} \sin\left(\frac{2\pi}{n}\right) = \lim_{a \rightarrow 0} \frac{\pi r^2}{2a\pi} \sin(2\pi a)?$$

¹similar problems: 5,6

²similar problems: 21,22