Homework 17 (Chap. 6.5), 48.00/60.00 (80.00%)

December 3, 2019

Problem 6 score: 0/10[1]

NOT ok

$$\int_{-1}^{1} \frac{x^2}{(x^3+3)^2} dx \neq \int_{2}^{4} \frac{du}{u^2} \left(= \frac{1}{3} \int_{2}^{4} \frac{du}{u^2} \right)$$

Problem 10 score: 9/10[2]

(a) OK

(b) OK

(c) OK, but strictly speaking, the phrase "according to the MVT for integrals $\int_1^3 \frac{1}{x} dx = f(c) \cdot 2$" is incorrect. In this particular situation, this equality holds not because of MVT, but because of your choice of c.

Problem 13 score: 10/10

OK

Problem 14 score: 10/10

OK

Problem 22 score: 9/10[3]

(a) OK

(b) OK, but you wrote $s = vt \implies ds = gtdt$. Where is v defined and what does it equal to?

Problem 25 score: 10/10

OK

[1] similar problems: 7,8
[2] similar problems: 11,12
[3] similar problems: 23,24