Homework 15 (Chap. 6.2), 84.00/100.00 (84.00%)

December 3, 2019

Problem 10 score: 0/10[1]

you forgot the π in your answer.

Problem 14 score: 10/10

OK

Problem 42 score: 10/10

OK

Problem 45 score: 5/10[2]

(a) OK

(b) NOT ok. $270.03 * \pi \neq 810.09\,(= 848.32)$ Also, writing $\sum_{i=1}^{4} \left(\bar{x}_o^2 - \bar{x}_i^2\right)$ is very bad, since

  (a) it does not show dependence on summation index i

  (b) it (wrongly) suggests that i in x_i denotes summation index, while it denotes "i" for $i$inner.

  notation like $\sum_{i=1}^{4} \left(\bar{x}_o^{(i)} - \bar{x}_i^{(i)}\right)$ would be better

Problem 47 score: 10/10

OK

[1] similar problems: 11,12
[2] similar problems: 46,44

Problem 49 score: 9/10[3]

NOT completely ok

$$r^2 = y^2 + r^2 - 2rx + x^2 \not\Longrightarrow y = \sqrt{2x(r-x)} \left(\Longrightarrow y = \sqrt{x(2r-x)} \right).$$

¡++¿

Problem 56 score: 10/10

OK

Problem 57 score: 10/10

OK

Problem 60 score: 10/10

OK

Problem 66 score: 10/10

OK

[3]similar problems: 50,51