Homework 8 (Chap. 4.1), 91.50/100.00 (91.50%)

November 2, 2019

Problem 6 score: 10/10

ok

Problem 7 score: $9/10^1$

on your picture, local minima is clearly located a bit on the left to 2.

Problem 10 score: 10/10

ok, but not that you also have critical point at 2.

Problem 27 score: $7.5/10^2$

f(0) = 0 is not a local minimum, since for $x \to 0+, f(x) \to 2$.

Problem 37 score: $5/10^3$

$$\frac{3}{2} = \frac{1}{\sqrt{t}} \implies t = \sqrt{\frac{2}{3}}$$

Problem 41 score: 10/10

ok

Problem 51 score: 10/10

ok

Problem 54 score: 10/10

ok

¹similar problems: 8,9

² similar problems: 28, also do the same for function defined as $f(x) = \sin x$ on $[-\pi/2, 0]$

and f(x) = -2 + 4x on (0, 4]³similar problems: 38,39

Problem 57 score: 10/10

ok

Problem 76 score: 10/10

ok