

Homework 4, 126.66/150.00 (84.44%)

October 22, 2019

Problem 5 score: 10/10

ok

Problem 9 score: 10/10

ok

Problem 16 score: 10/10

ok

Problem 19 score: 10/10

ok

Problem 22 score: 10/10

ok

Problem 31 score: 10/10

ok

Problem 41 score: 0/10¹

$$f(t) = \sin^2(e^{\sin^2 t}) \neq \sin^2(e^{\sin 2t}).$$

¹similar problems: 46,40

Problem 45 score: 10/10

ok

Problem 55 score: 0/10²

$$y'(x) = + \frac{2e^{-x}}{(e^{-x} + 1)^2}.$$

Problem 59 score: 10/10

ok

Problem 63 score: 10/10

(a) ok

(b) ok

Problem 69 score: 10/10

ok

Problem 73 score: 10/10

ok

Problem 77 score: 10/10

ok

Problem 98 score: 6.66/10³

(a) ok

(b) NOT ok (what are values of x where it is not differentiable? write them explicitly; where is the proof?)

(c) NOT ok (what are values of x where it is not differentiable? write them explicitly; where is the proof?)

²similar problems: 56,57

³similar problems: find $f'(x)$; sketch the graphs of f and f' ; show where f is not differentiable for $f(x) = \tan|x|$ and $f(x) = |\cos(x^2 + 2x)|$