Homework 28 (Chap. 13.3),

April 29, 2020

Problem 10 score: 10/10

good

Problem 16 score: 10/10

Very good.

As a side note, you could've omitted the first part (where you take $y = mx$).

Problem 18 score: 8/10[1]

When you write

$$\lim_{y\to 0}\left(\lim_{x\to 0}\frac{xy^4}{x^2+y^8}\right)=\lim_{y\to 0}0=0.$$

which exactly "path" is this?

Problem 20 score: 10/10

good

Problem 36 score: 10/10

good

Problem 38 score: 8/10[2]

Good, but where did you show that domain of $\frac{xy}{x^2+xy+y^2}$ is $\left\{(x,y)\in\mathbb{R}^2\,|(x,y)\neq(0,0)\right\}$?

Problem 39 score: 10/10

good

Problem 44 score: /10

[1] similar problems: 17,19

[2] similar problems: 37,40