Quiz #6; Tuesday, date: 02/27/2018

MATH 53 Multivariable Calculus with Stankova

Section #117; time: 5 - 6:30 pm

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Student name:

1. Find the limit, if it exists, or show that the limit does not exist.

$$\lim_{(x,y)\to(0,0)} \frac{4y^2\cos^2 x}{x^2 + y^2}$$

- 2. True / False? The function $f(x,y) = \sqrt{x-y+1}$ is not continuous at the point (0,1).
- 3. True / False? To show that the limit at a point (a, b) exists, it suffices to find two paths to the point (a, b) where the limits of f(a, b) agree.