QUIZ 5

Time: 10min

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1. If $f(x, y) = \frac{xy^2}{x^2+y^4}$, does $\lim\limits_{(x,y)\to(0,0)} f(x, y)$ exist?

2. Find the first partial derivatives of the function $f(x, y) = \ln(x^2 + y^2)$.

Each problem is worth 5 pts.