

Quiz #8; Tuesday, date: 03/13/2018
MATH 53 Multivariable Calculus with Stankova
Section #117; time: 5 – 6:30 pm
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Student name:

1. Find the directions in which the directional derivative of $f(x, y) = y^3 + yx^2$ at the point $(0, 1)$ has the value 1.
2. *True / False?* The normal vector to the surface $z = f(x, y)$ is three-dimensional, while the normal vector to the level curve of $z = f(x, y)$ is two-dimensional.
3. *True / False?* The surface $z = x^2 - xy - y^2$ has a saddle point.