Quiz #11; Tuesday, date: 04/10/2018
MATH 53 Multivariable Calculus with Stankova
Section #114; time: 2 – 3:30 pm
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Student name:

1. Find the gradient vector field ∇f of f and sketch it.

$$f(x, y) = x(x + y)$$

2. *True / False?* $\mathbf{F}(x, y) = \langle x^2, y^2 \rangle$ is a conservative vector field.

3. *True / False?* Suppose f is a scalar function and ∇f is a force field. The work done by this force field along any one level curve of f is zero.