

Name:
Section:

Quiz 3

1. Find the curvature $\kappa(t)$ of the vector-valued function $r(t) = \langle \frac{1}{t}, 1, t \rangle$.

2. Find $\frac{\partial}{\partial x}$, $\frac{\partial}{\partial y}$, and $\frac{\partial}{\partial z}$ of the function $f(x, y, z) = x^2 + 3xy - 5ye^{2z}$.