

Attendance Quiz 22

Name: _____ Date: _____

1. Find (a) the curl and (b) the divergence of the vector field.

$$F(x, y, z) = \langle \ln x, \ln(xy), \ln(xyz) \rangle$$

2. Evaluate the surface integral $\iint_S yz \, dS$, where S is the part of the plane $x + y + z = 1$ that lies in the first octant.