

Quiz 9 — MA261 — July 28, 2017

Christina Jamroz, Alden Bradford

1. (10 points) Find a parametric representation of the part of the surface $x^2 + y^2 = 4z^2$ that lies above the xy -plane.
2. (10 points) Evaluate $\iint_S x^2yz \, dS$, where S is the part of the plane $z = 1 + 2x + 3y$ that lies above the rectangle $[0, 3] \times [0, 2]$.