Quiz 11

Time: 15 minutes

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1. Find the area of the cone $z = \sqrt{x^2 + y^2}$ from $z = 0$ to $z = 1$.

2. Evaluate $\iint\limits_{S} yz \, d\sigma$ where S is the first octant part of the plane $x + y + z = 1$.

Each problem is worth 6pts.