

## Quiz 11

**Time: 10 minutes**

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1. Compute the total flux of the vector field  $\mathbf{v}(x, y, z) = (x, 2y^2, 3z^2)$  out of the solid given by  $x^2 + y^2 \leq 9$ ,  $0 \leq z \leq 1$ .