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MA 26500 Quiz 5

July 2, 2016

1. Consider the subset $S^2 \subset \mathbb{R}^3$ defined by

$$S^2 = \{ (x, y, z) \in \mathbb{R}^3 : x^2 + y^2 + z^2 - 1 = 0 \}.$$

You may recognize this as the sphere of radius 1 centered at $(0, 0, 0)$.