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MA 26500 Quiz 5

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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).