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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  $(0, 0, 0)$ .