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Embeddings into Euclidean Spaces and the Deleted Product Obstruction

Two counterexamples are constructed:

- an example of a 3–dimensional manifold N with boundary which is not embeddable in $\mathbb{R}^3$ but there exists an equivariant mapping $\varphi : \Sigma\tilde{N} \to \Sigma S^2$; and
- an example of a closed smooth $4k$–dimensional manifold which does not smoothly embed into $\mathbb{R}^{6k-1}$, but there exists an equivariant mapping $\tilde{N} \to S^{6k-2}$. (Here $\tilde{N} = N \times N \setminus (\Delta N)$, where ΔN is the diagonal.)