Math 241: Quiz 11

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1. Calculate the volume of the solid bounded above by the sphere $x^2 + y^2 + z^2 = 1$ and below by the cone $4z = 3\sqrt{x^2 + y^2}$. Justify your answer and simplify it. In particular, your answer should not involve any trigonometric or inverse trigonometric functions.

Volume:		(simplify)
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