## Math 241: Quiz 11

## Show ALL Work

Name $\qquad$

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

