## Fake Quiz 1 Calc 3 10/16/2017

This is a fake quiz, this is only a fake quiz. In the event of an actual quiz, you'd have been given fair warning. Repeat: This is only a fake quiz.

1. Set up an iterated integral for the volume of the region bounded above the cone $z=\sqrt{x^{2}+y^{2}}$ and below the top half of the sphere with radius 3 centered at the origin.
2. Set up an iterated integral for the volume of the region inside $x^{2}+y^{2}=3$ above $z=0$ and below $z=10-x$.
3. Set up an iterated integral for the volume of the solid enclosed between $z=x^{2}+y^{2}$ and $z=8-x^{2}-y^{2}$.
4. Set up an iterated integral for the volume of the tetrahedron with vertices $(0,0,0),(4,0,0),(0,4,0)$, and ( $0,0,4$ ).
