Fake Quiz 2 Calc 3 10/22/2019
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. Let $f(x, y)=4 x^{2}+9 y^{2}$. Let $R$ be the parallelogram with vertices $(0,0),(2,2),(2,5)$, and $(0,3)$. Set up an iterated integral for $\iint_{R} f d A$.
2. Set up iterated integrals for the center of mass of the first-quadrant portion of a circle with radius 1 and evaluate them.
3. Set up an iterated integral for the volume above $z=\sqrt{x^{2}+y^{2}}$ and below $z=9$.
4. Set up an iterated integral for the volume above $z=\sqrt{x^{2}+y^{2}}$ and inside $x^{2}+y^{2}+z^{2}=9$.
