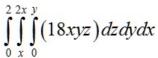
Ans

Instructions: Write complete solutions to the following problems in the space provided. Be sure to supply all the necessary steps that lead to your answers

1. Evaluate the iterated integral



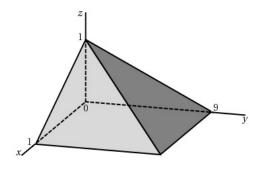
2. Evaluate the triple integral.



 $\iiint_E 5xy dv , \text{ where E is bounded by the parabolic cylinders}$

$$y = x^2$$
 and $x = y^2$ and the planes $z = 0$ and $z = 9x + y$

3. Use a triple integral to find the volume of the tetrahedron shown Ans_____



4. Find the mass of the solid shown, where Ans $z = 64 - x^2$ and y = 8 - x and the mass density is $\rho(x, y, z) = x$

