Calculus III. S17 Quiz 9. Name _____ Time__ Show all work for full or partial credit. Put a box around your final answer in each part.

1. Find the integral $\int_{-5}^{0} \int_{-\sqrt{25-x^2}}^{0} \int_{0}^{2} e^{(x^2+y^2)} dz dy dx$.

First show the set up of the integral, using cylindrical coordinates, then evaluate.

2. Set up the integral of the function $f(x,y,z) = \sin(xy+z)$ over the tetrahedron with vertices (0,0,0), (1,1,0), (0,3,0) and (0,3,3).

You don't have to integrate, just set up the triple integral.