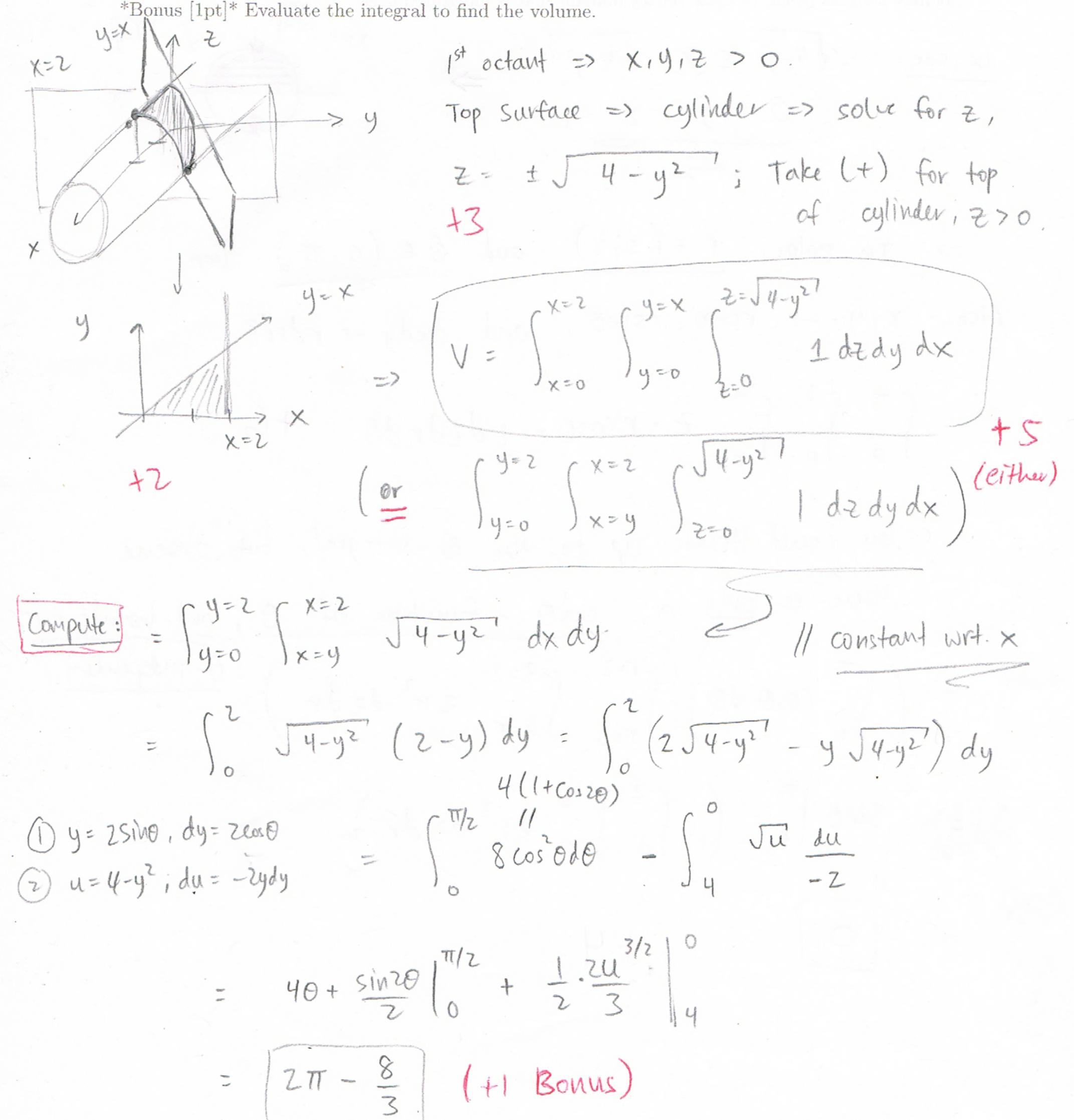
Math 2E Quiz 3 Afternoon - April 14th Please put ID on back for redistribution!

Show all of your work, and simplify all your answers. *There is a question on the back side.

Express the volume of the wedge in the first octant that is cut from the cylinder $y^2 + z^2 = 4$ by the planes y = x and x = 2. You do not need to evaluate the integral for full credit.



2. Let E be the solid that lies within the cylinder $x^2 + y^2 = 1$, above the plane z = 0, and below the cone $z^2 = 4x^2 + 4y^2$. With this region E, evaluate

