

3. Find and sketch the 3 projections of E onto the coordinate planes: x - y , x - z , y - z .
Find and label all curves for each 2D region.

What are the bounds for the inner variable for each of these projections?

Remember, the edge curves of the solid are the intersections of two of the bounding surfaces of the solid. You might find it easiest to start with the projection in z onto the x - y plane, since that's the order of the given integral.

4. Rewrite in integral as an equivalent iterated integral in the 5 other orders of integration. *Again, you might find it easiest to start with the projection in z onto the x - y plane but reverse the order of integration between x and y , i.e., $dV = dz dx dy$. Then do both choices for each of the other projections.*