Q8: 15.6 and 7 (1) SET UP BUT DO NOT EVALUATE: integrals as specified to find the volume of the solid bounded by the cylinder  $z = x^2$  and the planes y=0, and z=4-y. a) sketch the solid and sketch the projections in each of the coordinate planes (Note: This is very similar to the example done on video) (12 POINTS)



b) Triple integral- rectangular coordinates; order dz dy dx

 $\int_{-2}^{2} \frac{4 - x^{2}}{5} \int_{x^{2}} \frac{4 - y}{4 - y} dz dy dx$ 

c) Triple integral- rectangular coordinates; order dx dy dz



(d) Triple integral- rectangular coordinates; order dy dz dx



