## Math 133, Quiz #1

1. Find the volume of the solid generated by revolving about the x-axis the region between the x-axis and the graph of the function  $y = f(x) = \frac{r}{h}x$ ,  $0 \le x \le h$  where r, h are positive constants. Sketch the solid (5 points).

 Find the volume of the solid generated by revolving the region enclosed by the triangle with vertices (1,0), (2,1) and (1,1) about the y-axis (5 points).



Figure 1: