## 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 $y=f(x)=\frac{r}{h} x$, $0 \leq x \leq h$ where $r, h$ are positive constants. Sketch the solid ( 5 points).
2. 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:

