Name:	 
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R·I·T School of Mathematical Sciences

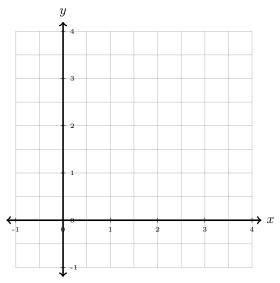
## Homework 2

## MATH 211

1. Evaluate the iterated integral.

$$\int_0^{\pi/3} \int_0^{\sec \theta} \sec \theta \ dr \ d\theta$$

2. Use double integration to find the area of the region bounded by  $y=2x-x^2$  and -x+y=0. You must sketch the region.



3. Use double integration to find the volume of the solid bounded above by  $z=1+2x-3y^2$ , and below by the region bounded by  $y=\sqrt{x},\,x=4$  and y=0. You must sketch the region.

