- 1. Let f(x,y) = 2xy + 2x, and R be the region of the xy-plane between the two curves y = x and $y = x^2$.
 - a) Sketch the region *R*

- b) Set up (but don't solve) an integral representing the volume below the surface f(x, y) within the region R...
 - (i) by integrating first with respect to *x*:
 - (ii) by integrating first with respect to *y*:

c) Find the volume by evaluating one of the integrals in part b.