TAT A	$(\mathbf{n} \cdot \mathbf{n})$	
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- 1. Sketch the region \mathcal{R} enclosed by the curves $x = y^2$ and y = 2 x. Draw a sketch!
 - (a) Using an *x*-integral find the area encolsed by these functions.

(b) Using a *y*-integral find the area encolsed by these functions.

- (c) Compare/contrats the above two results.
- 2. Write an x-integral AND a y-integral for the shaded region in the figure. Fill the empty boxes in the figure.



- 3. Sketch the region \mathcal{R} enclosed by the curves y = x and $y = x^2$.
 - (a) [P442 Ex5] Find the volume of the solid obtained by rotating the region \mathcal{R} about the line y = 2. Sketch a typical disk or washer.

(b) [P444 Ex6] Find the volume of the solid obtained by rotating the region \mathcal{R} about the line x = -1. Sketch a typical disk or washer.