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## 0.1 Disks

We defined an open disk at $(a, b)$ of radius $r$ as:

$\{(x, y) \in \mathbb{R}^2 : (x - a)^2 + (y - b)^2 < r^2\}$

For a closed disk it is:

$\{(x, y) \in \mathbb{R}^2 : (x - a)^2 + (y - b)^2 \leq r^2\}$

## 0.2 Annulus

An annulus is a disk, which excludes a smaller disk inside the disk

## 0.3 Punctured disk

If the interior disk is just a point, it is a punctured disk.