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A disk is the area contained by a circle.

An open disk at (a, b) of radius r is:

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

For a closed disk it is:

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