Double integration in polar coordinates

- 1. Compute $\iint_R f(x,y) dx dy$, where $f(x,y) = \frac{1}{\sqrt{x^2 + y^2}}$ and R is the region inside the circle of radius 1, centered at (1,0).
- **2**. Find the area inside the cardioid $r = 1 + \cos \theta$.

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