















Because $\cos \theta$ is $\frac{x}{r}$ and $\sin \theta$ is $\frac{y}{r}$, it retraces its step

$r = \sqrt{x^2 + y^2}$

$\cos \theta = \frac{x}{\sqrt{x^2 + y^2}}$

$\sin \theta = \frac{y}{\sqrt{x^2 + y^2}}$

$\theta = \arctan\left(\frac{y}{x}\right)$

$\theta = \frac{\pi}{6}$

$\theta = \frac{4\pi}{3}$

$r = \frac{3}{2} \cdot \frac{1}{\cos \theta}$

$0 \leq \theta \leq \frac{\pi}{2}$

$(0,0) = \text{begin}$

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