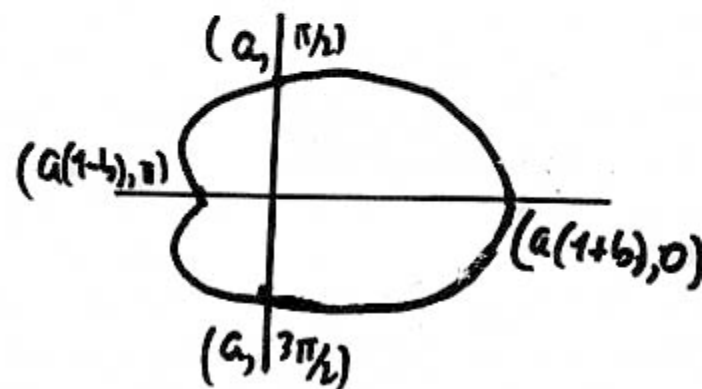


Favorite examples of polar curves.

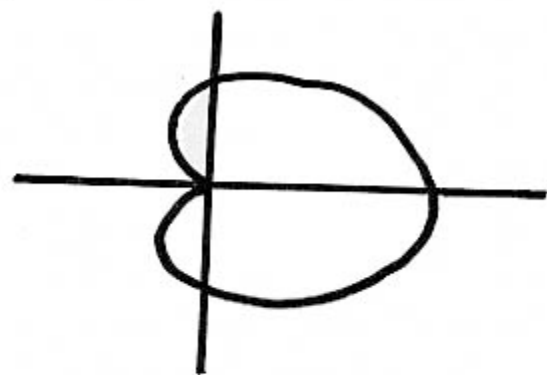
I. $r = a(1 + b \cos \theta)$.

(a is positive, b too).

Case 1. $0 < b < 1$



Case 2. $b = 1$ (cardioid)



Case 3. $b > 1$ (limaçon)

$r = 0$ when $\theta = \cos^{-1}(-1/b)$

