the_notebook

July 15, 2020

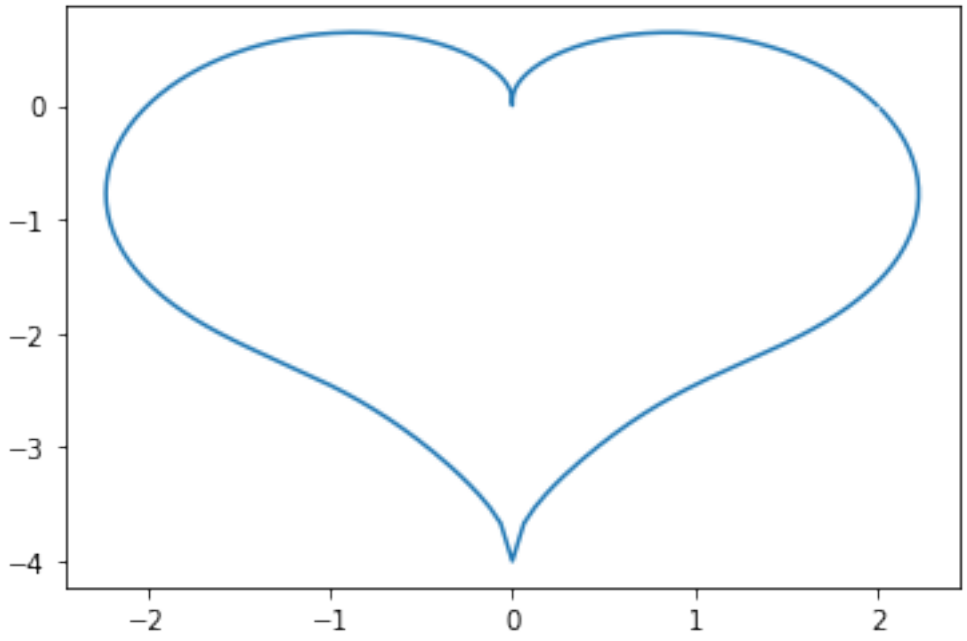
Every great love starts with a great story…

[1]:
```
import math
%matplotlib inline
import matplotlib.pyplot as plt

def radius(theta):
    return (
        2 - 2 * math.sin(theta)
        + math.sin(theta) * math.sqrt(abs(math.cos(theta))) / (math.sin(theta)␣
 ↪+ 1.4)
    )
theta = [t * math.pi / 180 for t in range(360)]
radius = [radius(t) for t in theta]
x = [r * math.cos(t) for r, t in zip(radius, theta)]
y = [r * math.sin(t) for r, t in zip(radius, theta)]

plt.plot(x, y)
```

[1]:
```
[<matplotlib.lines.Line2D at 0x116e66b90>]
```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[ ]: