

the_notebook

July 15, 2020

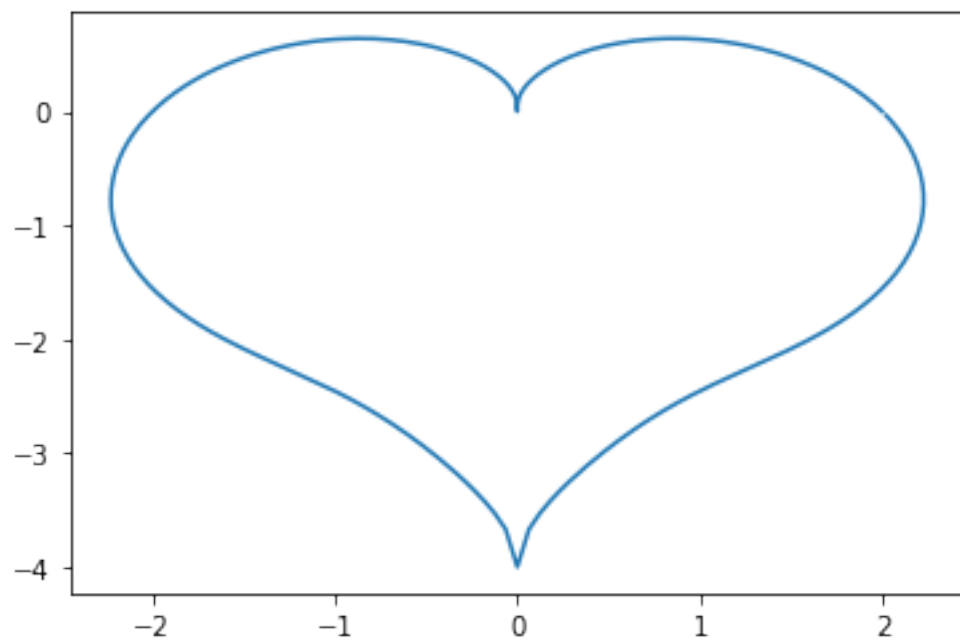
Every great love starts with a great story...

```
[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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