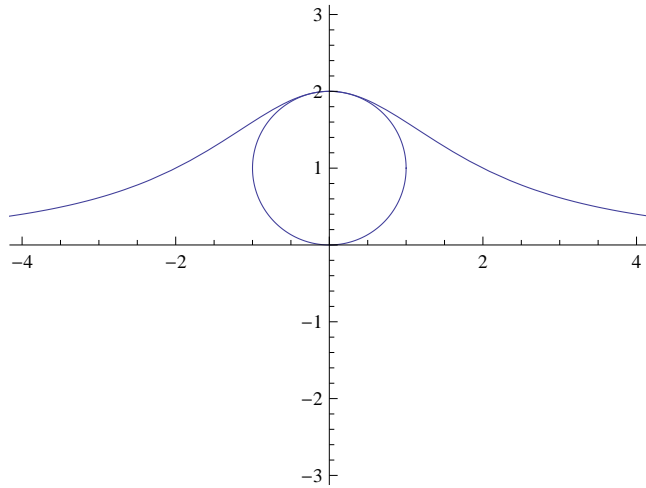


Witch of Agnesi
circle radius $a = 1$

```
g1 = ParametricPlot[{Cos[t], Sin[t] + 1}, {t, 0, 2 Pi}]  
g2 = ParametricPlot[{2 Cot[t], 2 Sin[t]^2}, {t, 0, Pi}]  
Show[g1, g2, PlotRange -> {-3, 3}]
```



Witch of Agnesi for ellipse
semimajor axis $a = 2$, semiminor axis $b = 1$

```
g3 = ParametricPlot[{2 Cos[t], Sin[t] + 1}, {t, 0, 2 Pi}]  
g4 = ParametricPlot[{2 Cot[t], 8 Tan[t]^2 / (1 + 4 Tan[t]^2)}, {t, 0, Pi}]  
Show[g3, g4, PlotRange -> {-3, 3}]
```

