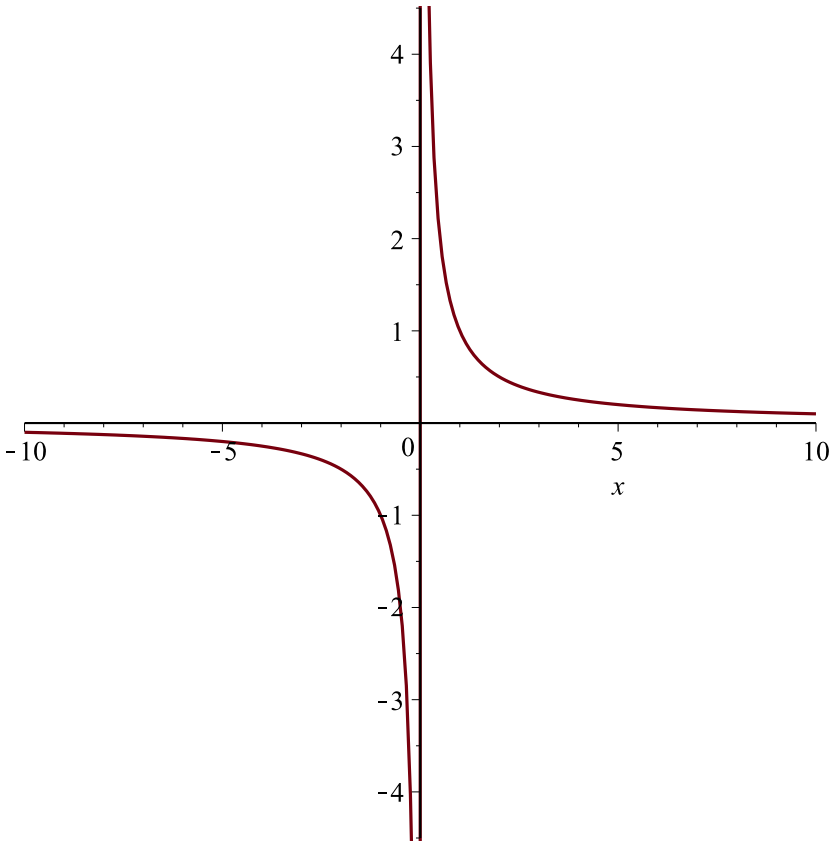
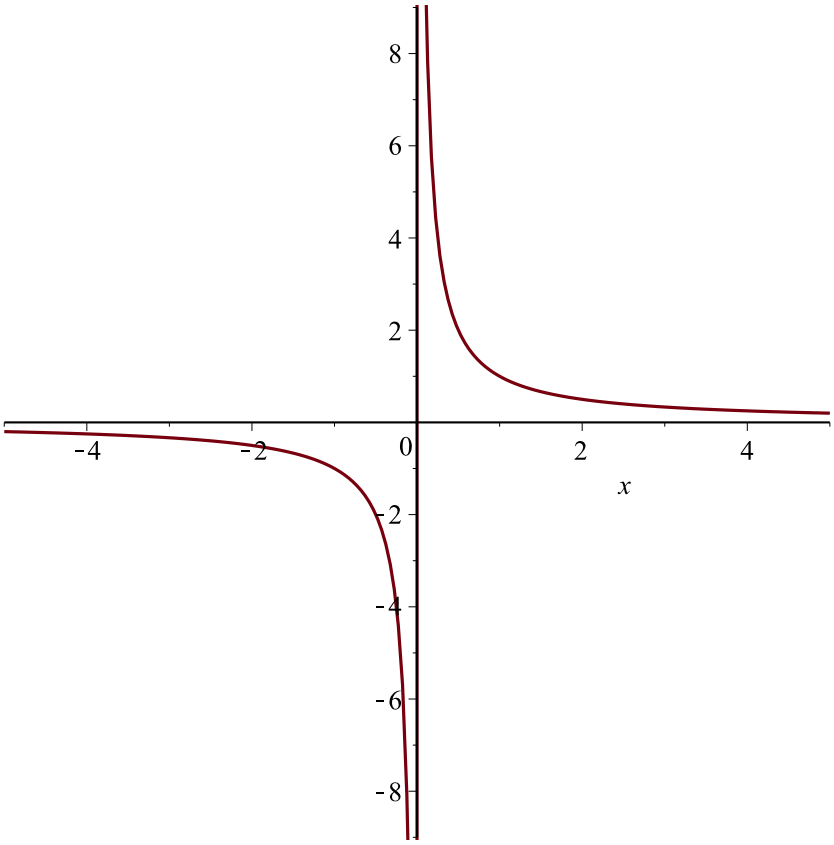
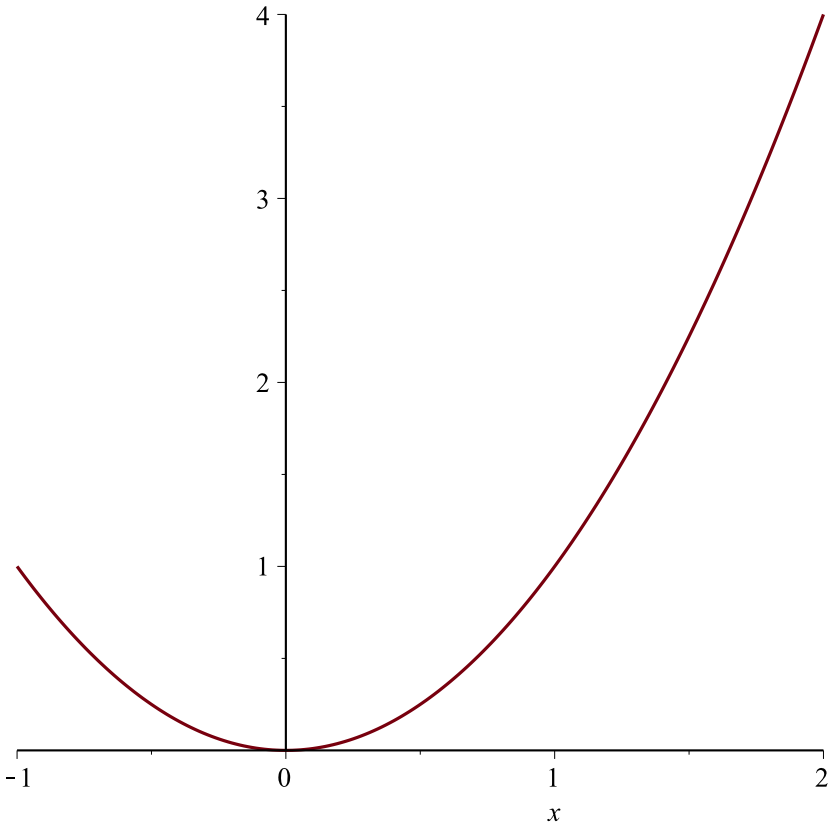
> $plot\left(\frac{1}{x}\right)$



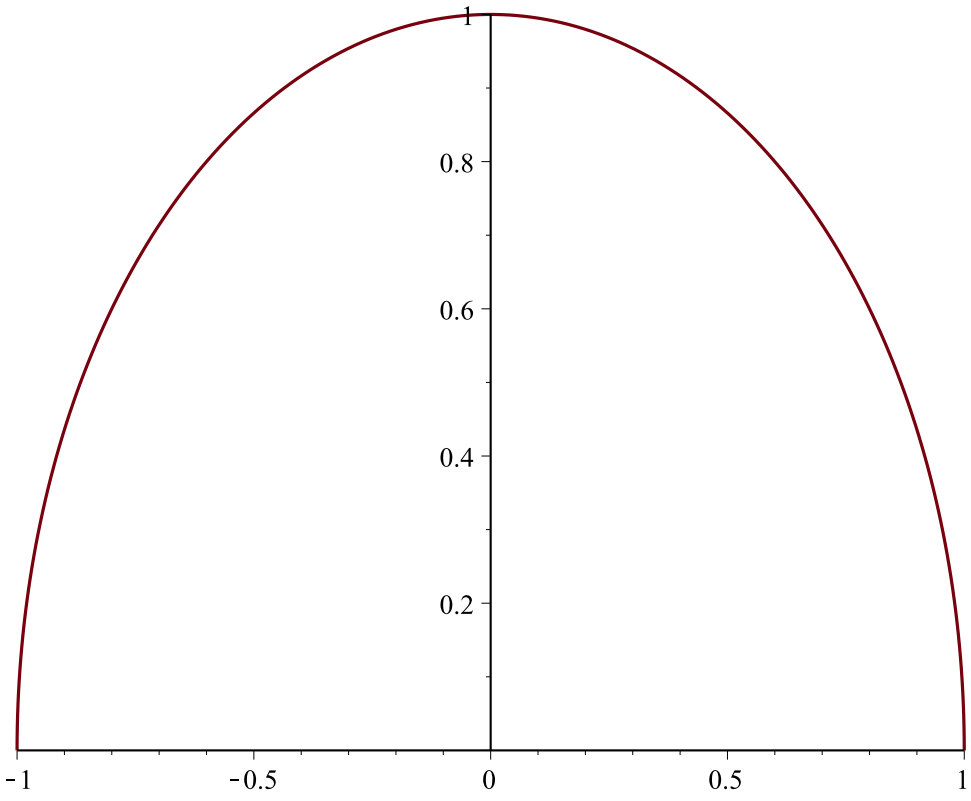
> $plot\left(\frac{1}{x}, x=-5\ ..5\right)$



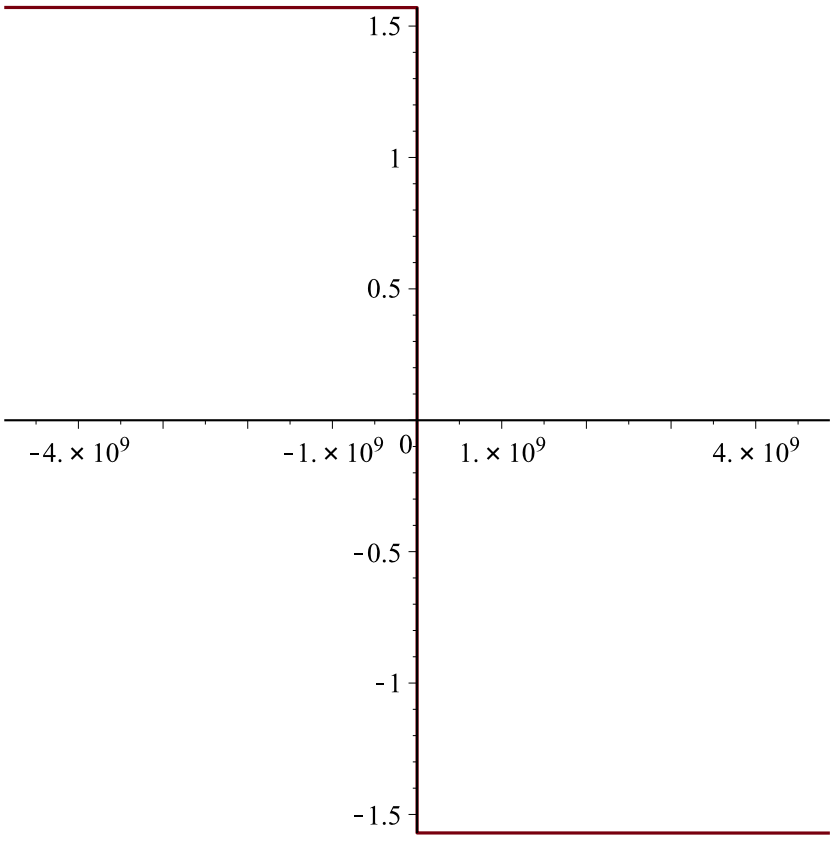
> $plot\left(x^2, x=-1..2\right)$



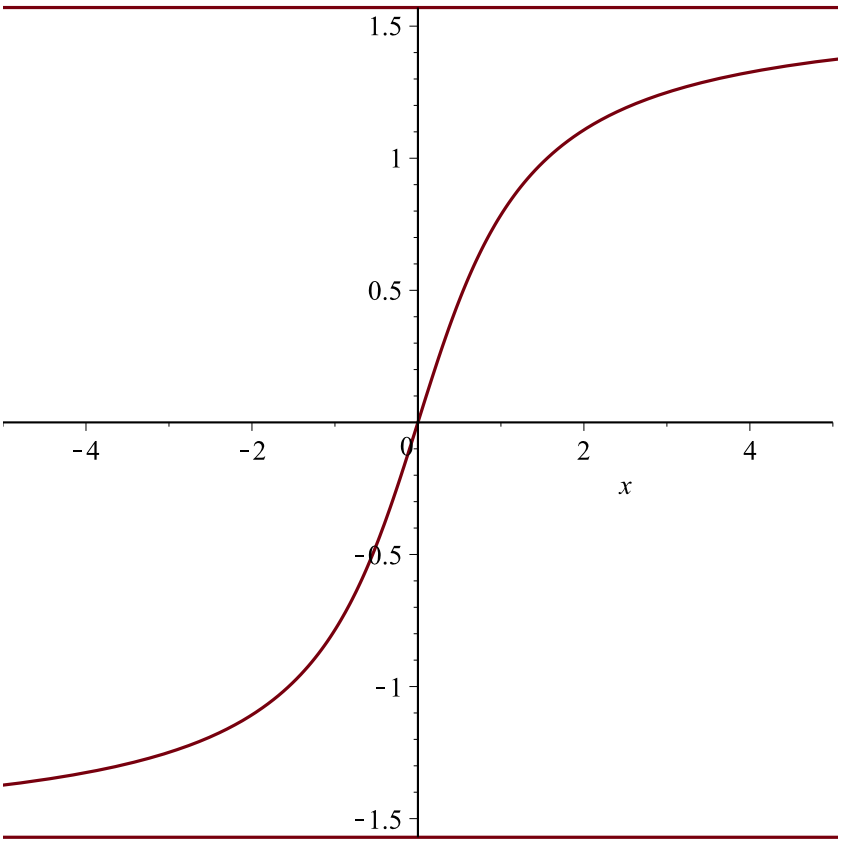
> $plot([\cos(t), \sin(t), t = 0 .. \mathrm{Pi}])$



> $plot\left(\left[\tan(t), t, t = -\frac{\mathrm{Pi}}{2} .. \frac{\mathrm{Pi}}{2}\right]\right)$



> $plot\left(\left[\tan(t),\ t,\ t=-\frac{\mathrm{Pi}}{2}\ ..\frac{\mathrm{Pi}}{2}\right],\ x=-5\ ..5\right)$




```
> with(plots)
```

[*animate*, *animate3d*, *animatecurve*, *arrow*, *changecoords*, *complexplot*, *complexplot3d*, *conformal*, *conformal3d*, *contourplot*, *contourplot3d*, *coordplot*, *coordplot3d*, *densityplot*, *display*, *dualaxisplot*, *fieldplot*, *fieldplot3d*, *gradplot*, *gradplot3d*, *implicitplot*, *implicitplot3d*, *inequal*, *interactive*, *interactiveparams*, *intersectplot*, *listcontplot*, *listcontplot3d*, *listdensityplot*, *listplot*, *listplot3d*, *loglogplot*, *logplot*, *matrixplot*, *multiple*, *odeplot*, *pareto*, *plotcompare*, *pointplot*, *pointplot3d*, *polarplot*, *polygonplot*, *polygonplot3d*, *polyhedra_supported*, *polyhedraplot*, *rootlocus*, *semilogplot*, *setcolors*, *setoptions*, *setoptions3d*, *spacecurve*, *sparsematrixplot*, *surfdata*, *textplot*, *textplot3d*, *tubeplot*] **(1)**

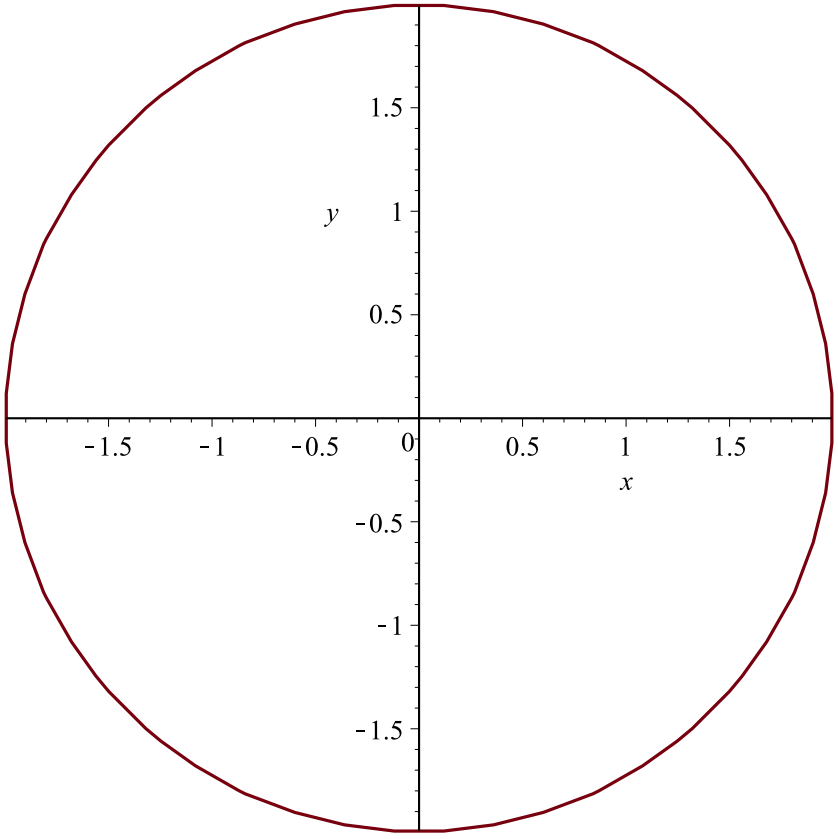
```
> implicitplot(x^2+y^2=4)
```

Error, (in plots:-implicitplot) invalid input: `plots/implicitplot` uses a 2nd argument, xin, which is missing

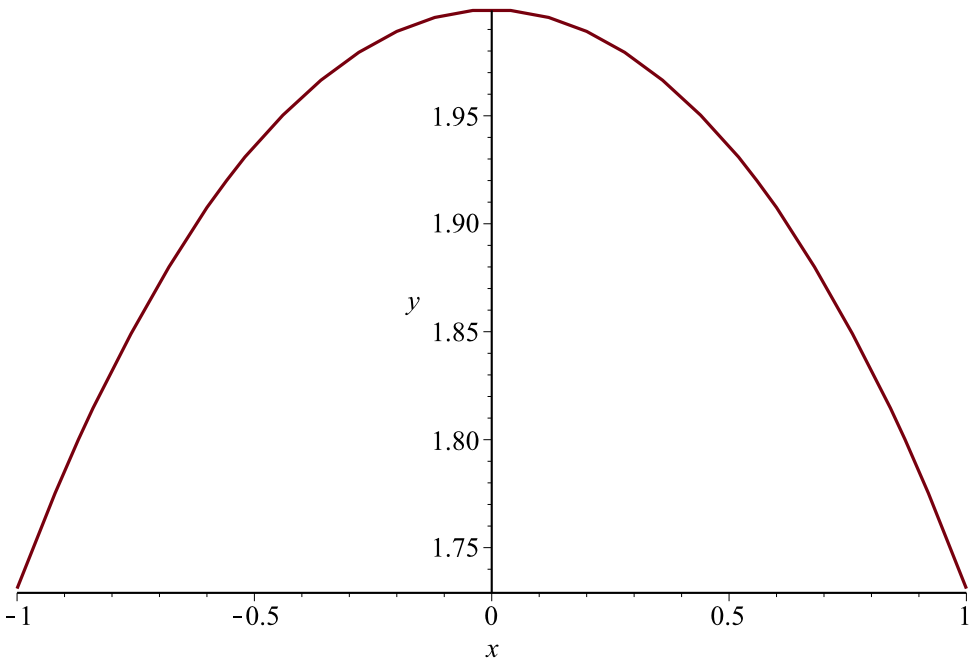
```
> implicitplot(x^2+y^2=4, x=-3..3)
```

Error, (in plots:-implicitplot) invalid input: `plots/implicitplot` uses a 3rd argument, yin, which is missing

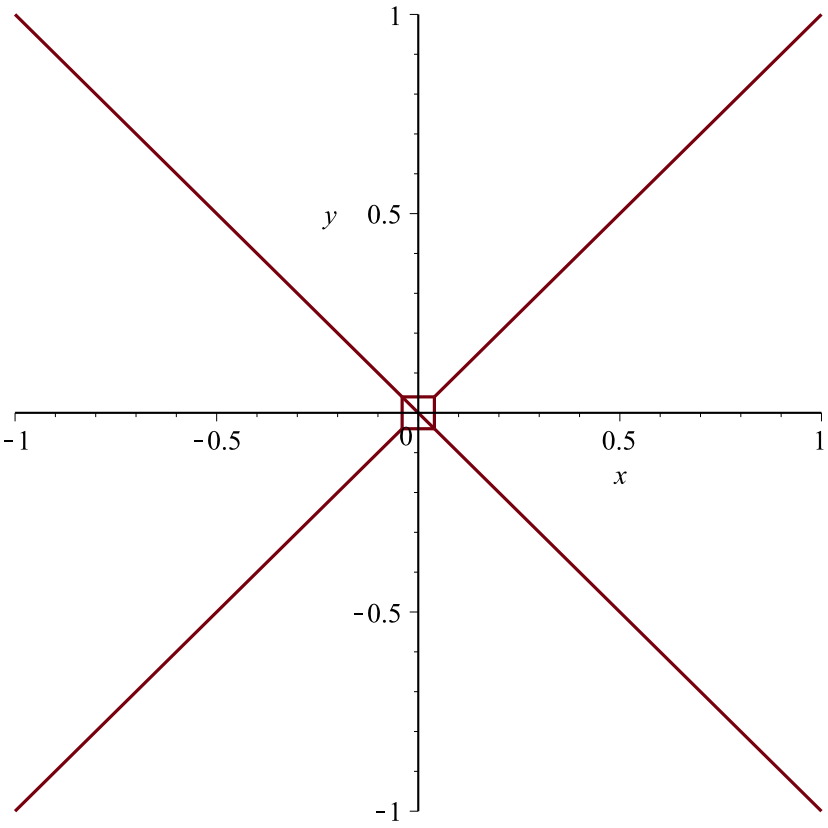
> $implicitplot\left(x^2+y^2=4, x=-3..3, y=-3..3\right)$



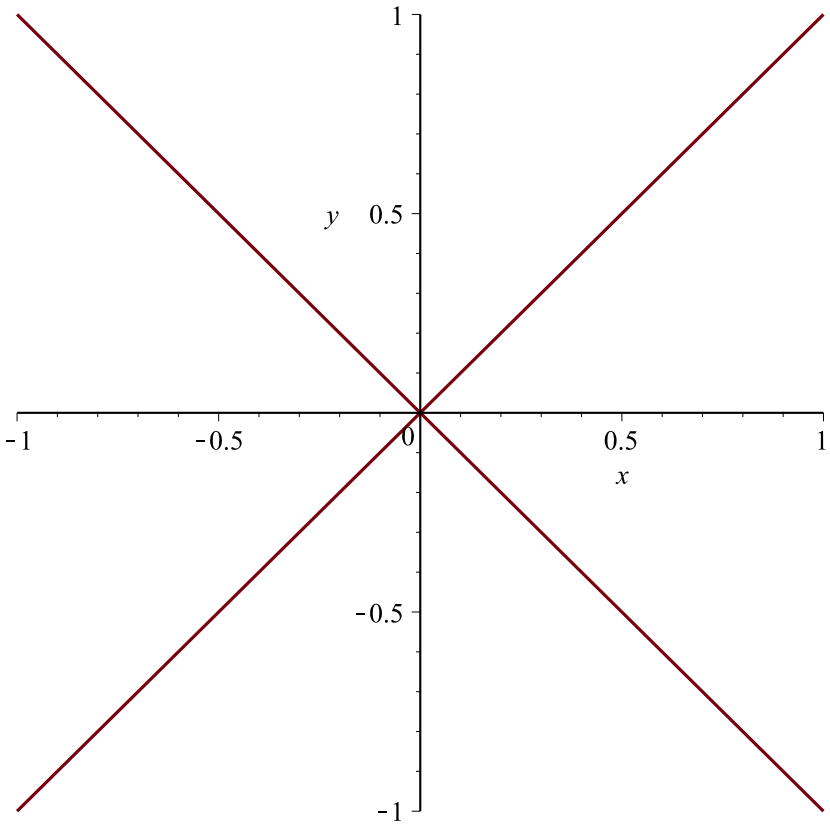
> $implicitplot\left(x^2+y^2=4, x=-1..1, y=0..3\right)$



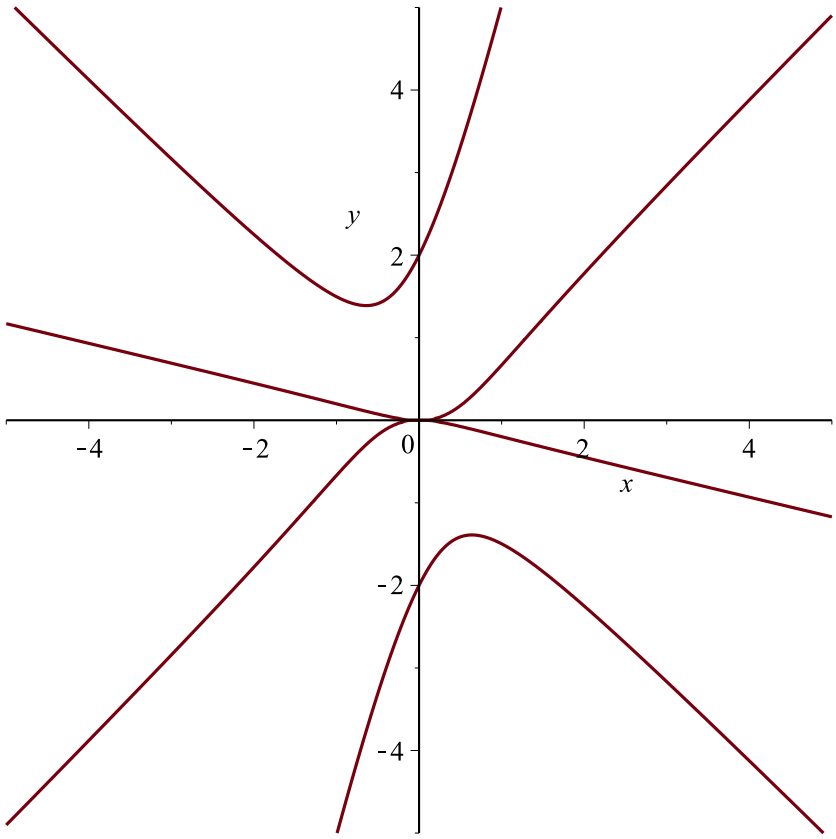
> $implicitplot\left(x^2 - y^2 = 0, x = -1 \ldots 1, y = -1 \ldots 1\right)$



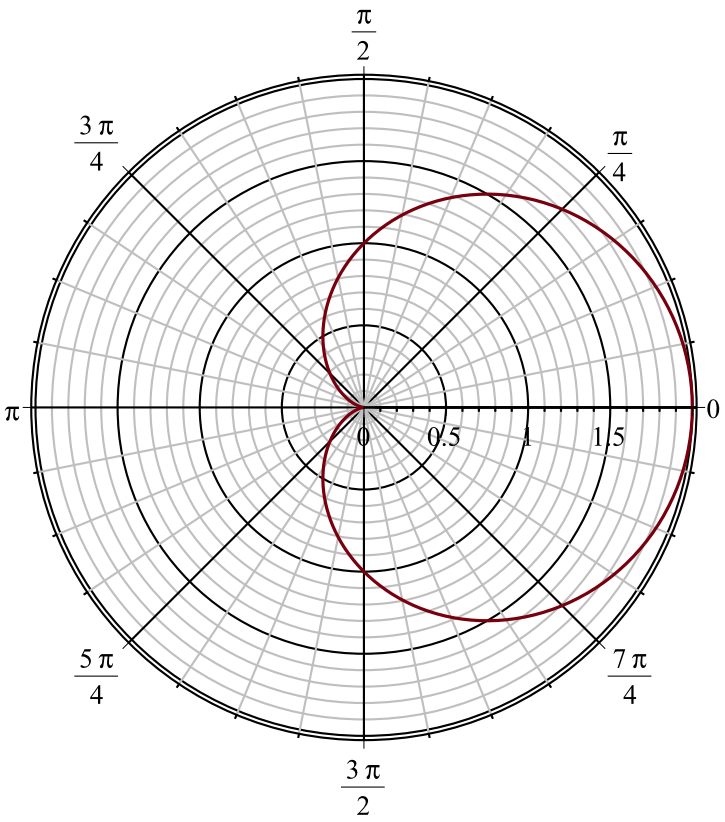
> $implicitplot\left(x^2 - y^2 = 0, x = -1 \ldots 1, y = -1 \ldots 1, gridrefine = 4\right)$



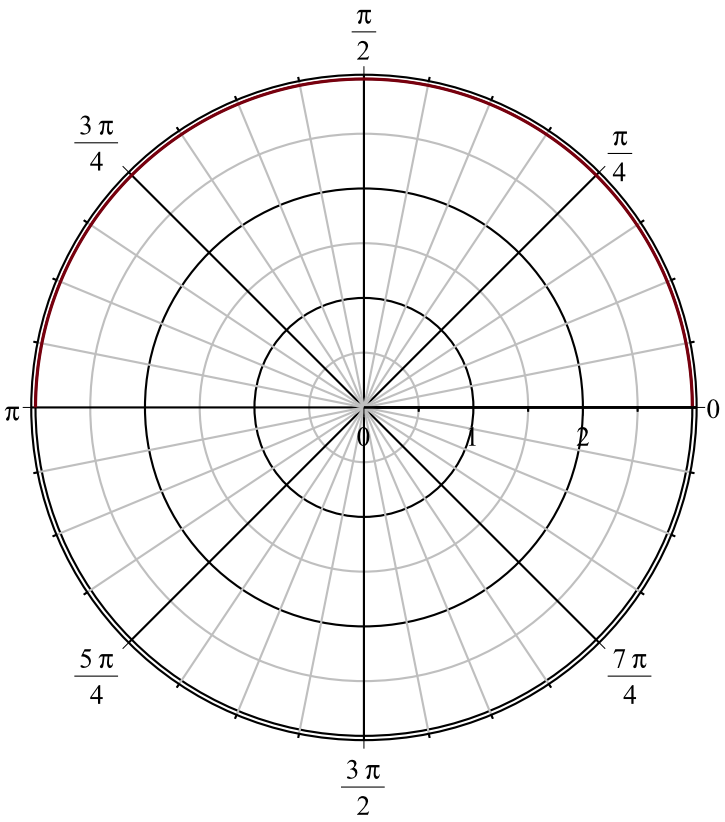
> $implicitplot\left(\left(x^2-y^2\right)^2+4\cdot x\cdot y\cdot\left(x^2-y^2\right)-4\cdot y^2=0, x=-5..5, y=-5..5, gridrefine=4\right)$



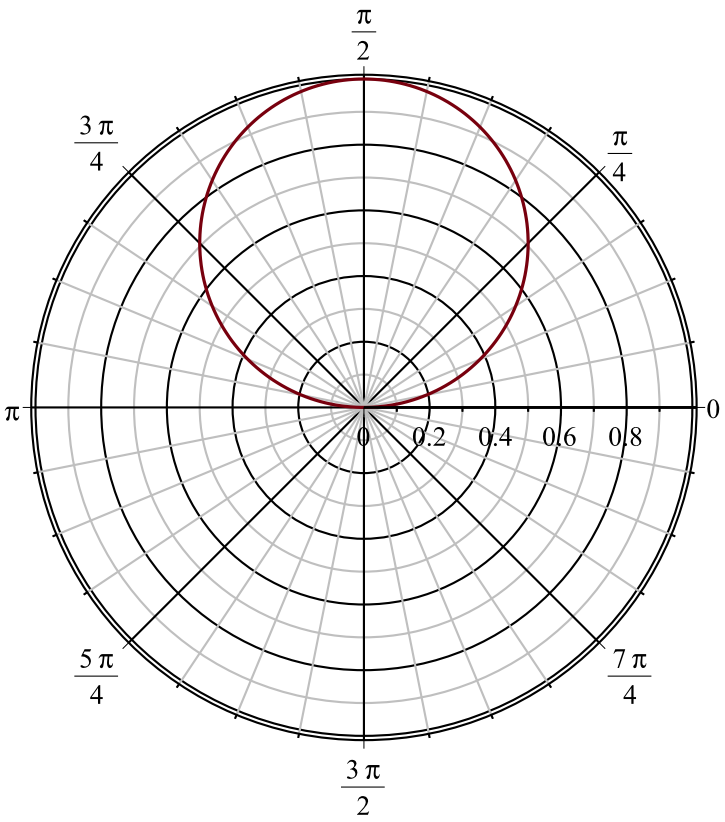
> $polarplot(1+\cos(\text{theta}), \text{theta}=0..2\cdot \text{Pi})$




```
> polarplot( 3, theta = 0 ..Pi )
```



> $polarplot\left(\sin(\text{theta}), \text{theta} = -\frac{\text{Pi}}{2} \,..\, \frac{\text{Pi}}{2} \right)$



> I will post this document both as a pdf and as a Maple worksheet instead of the usual lecture notes.