Implicitně zadaná funkce

pomocí rovnice

$$2\,y^3 + y^2 - y^5 = x^4 - 2\,x^3 + x^2$$

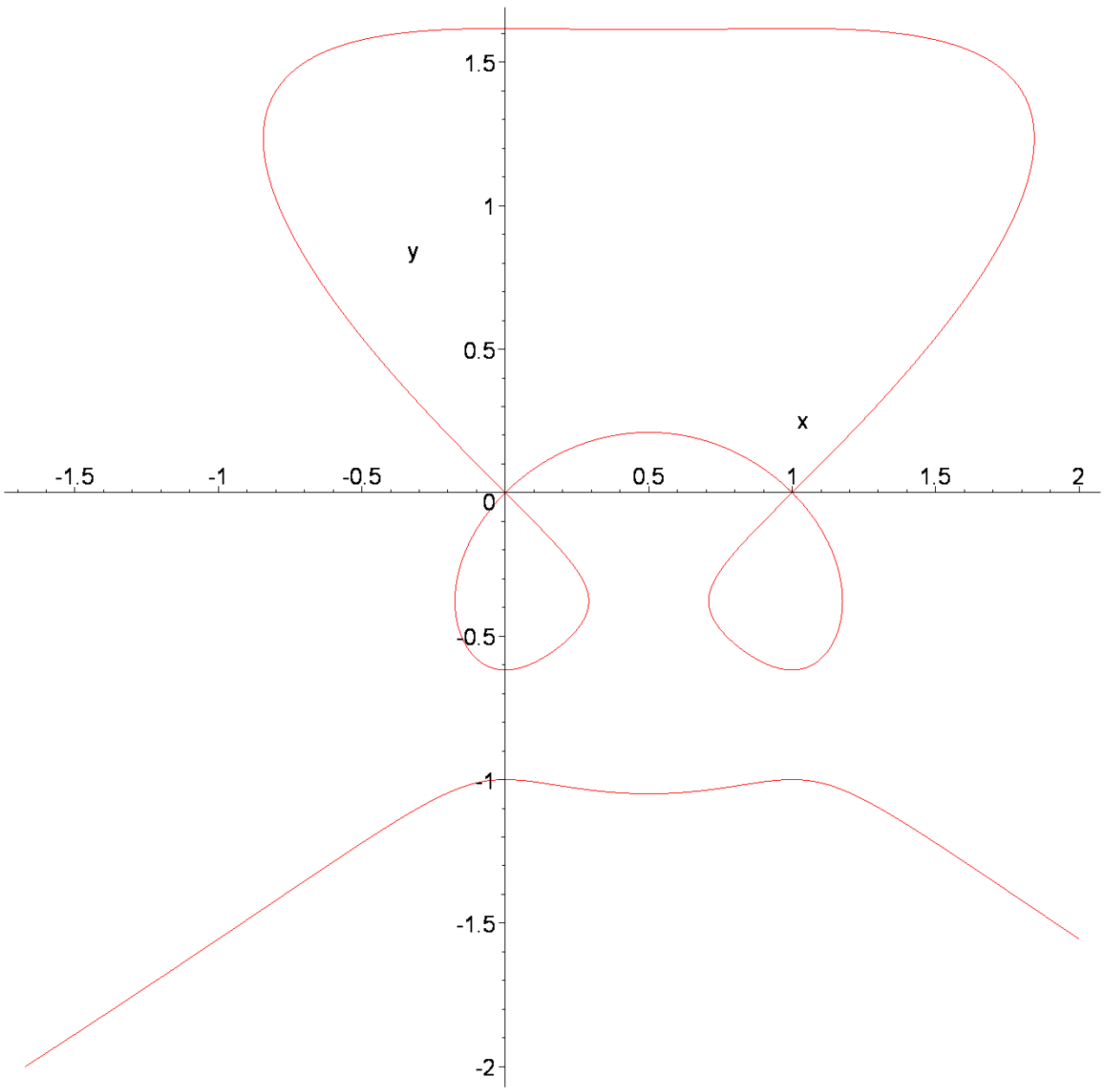
```
>
>  restart: with(geometry):
```

```
> with(plots);
```

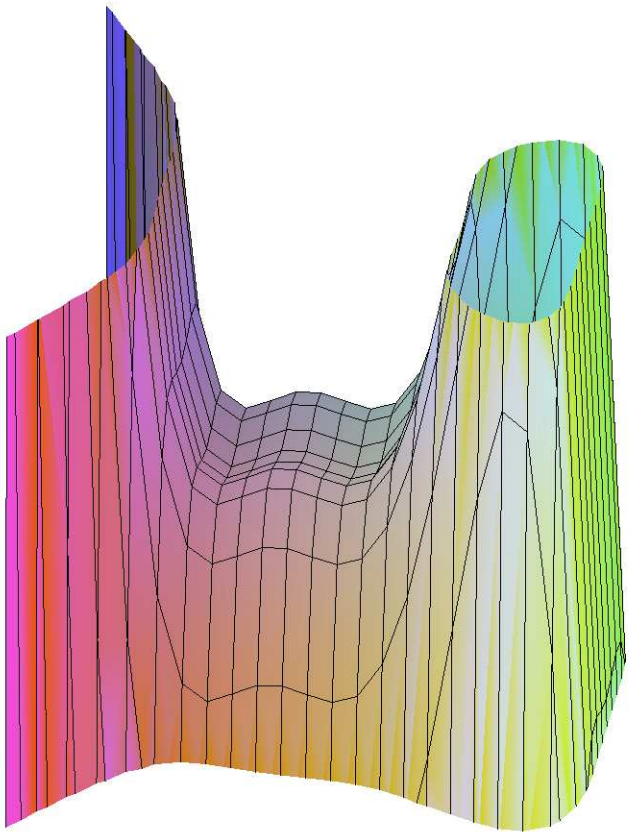
[*animate, animate3d, animatecurve, arrow, changecoords, complexplot, complexplot3d, conformal, conformal3d, contourplot, contourplot3d, coordplot, coordplot3d, densityplot, display, dualaxisplot, fieldplot, fieldplot3d, gradplot, gradplot3d, graphplot3d, implicitplot, implicitplot3d, inequal, interactive, 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*]

```
>
> eq := 2 * y^3 + y^2 - y^5 = x^4 - 2 * x^3 + x^2;
   implicitplot(eq,x=-2..2,y=-2..2, numpoints=100000,
  scaling=constrained);
```

$$eq := 2\,y^3 + y^2 - y^5 = x^4 - 2\,x^3 + x^2$$




```
>
> plot3d({2 * y^3 + y^2 - y^5 - x^4 + 2 * x^3 - x^2},
  x=-2..3,y=-2..2,view=-1..1,orientation=[11,50]);
```

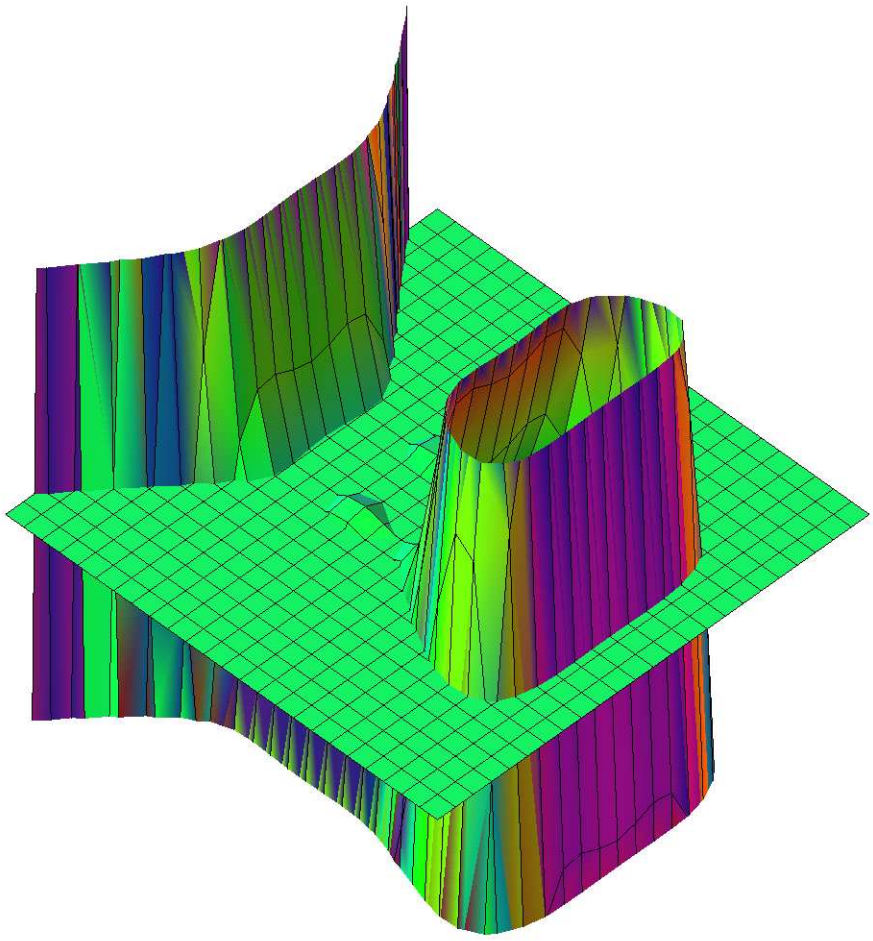


```
> set( title="Implicitně zadaná
  funkce",w=400,h=400,r=hide,bg=image,
  axes=on,align=center,workingPath=installationPath,v="0 1 -1" );
```

set(*title* = "Implicitně zadaná funkce", *w* = 400, *h* = 400, *r* = *hide*, *bg* = *image*, *axes* = *on*, *align* = *geometry*:-*center*, *workingPath* = *installationPath*, *v* = "0 1 -1")

```
> aa:=plot3d({2 * y^3 + y^2 - y^5 - x^4 + 2 * x^3 - x^2},
  x=-2..3,y=-2..2,view=-1..1,orientation=[11,50]):
> exportHTM(aaa,"C:/analyza1/bonusy/implicka/implicka.htm"):

> plot3d({0,2 * y^3 + y^2 - y^5 - x^4 + 2 * x^3 - x^2},
  x=-2..3,y=-2..2,view=-1..1,lightmodel=light1, shading=zhue);
```



```
> 
> 
```