

□ Zadaci 1

└ 1

```
(%i1) solve(x^2-2*x=0,x);  
(%o1) [x=0, x=2]
```

└ 2

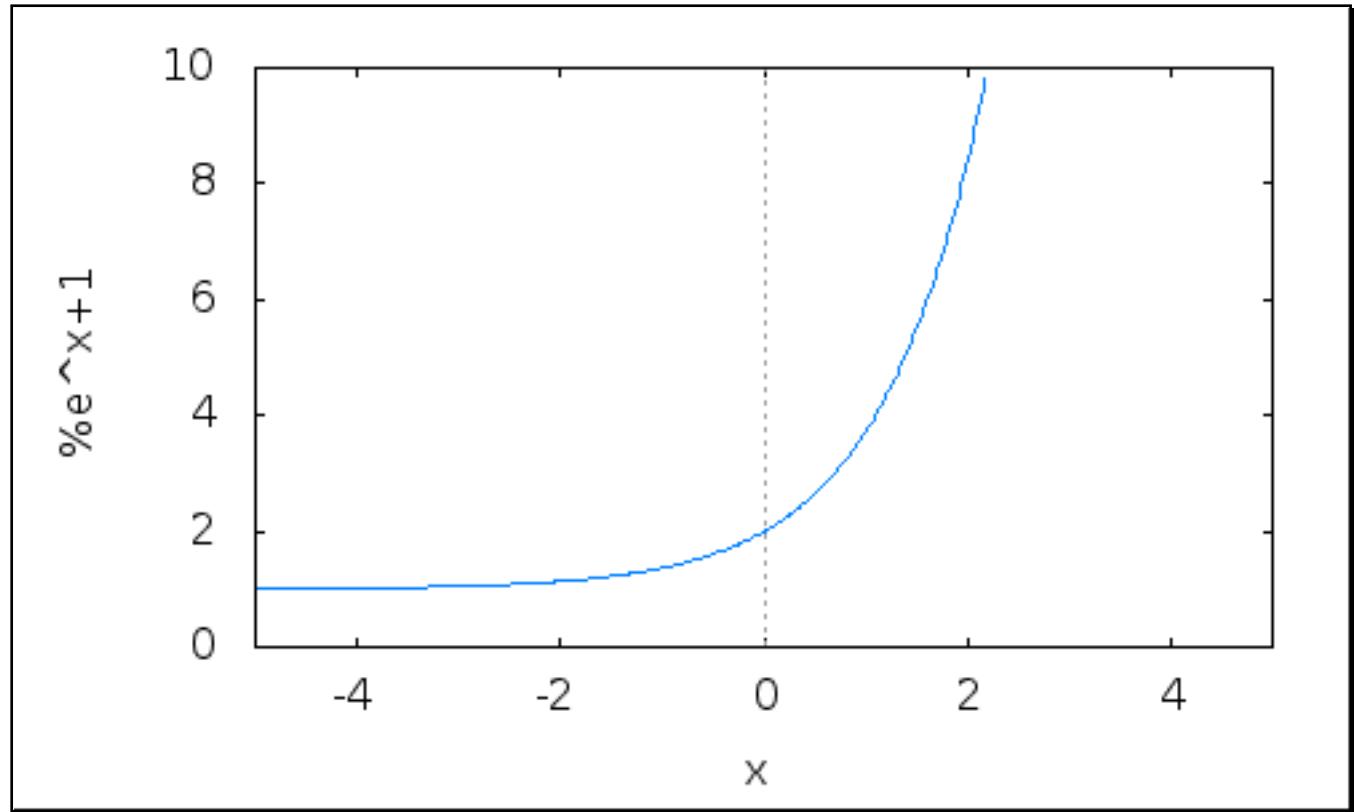
```
(%i2) solve(a*x^2+5*b*x-2=0,x);  
(%o2) [x=-sqrt(25 b^2+8 a+5 b)/2 a, x=sqrt(25 b^2+8 a-5 b)/2 a]
```

└ 3

```
(%i3) linsolve([2*x-y-1=0, x+2*y+4=0],[x,y]);  
(%o3) [x=-2/5, y=-9/5]
```

└ 4

```
(%i4) wxplot2d[%e^x+1],[x,-5,5],[y,0,10]);
plot2d: some values were clipped.
(%t4)
```



```
(%o4)
```

```
5
```

```
(%i5) e1: x^2+y^2=1;
```

```
(%o5) y^2+x^2=1
```

```
(%i6) solve(e1,y);
(%o6) [y=-sqrt(1-x^2), y=sqrt(1-x^2)]
```

```
(%i7) r: %;
(%o7) [y=-sqrt(1-x^2), y=sqrt(1-x^2)]
```

```
(%i8) k1: rhs(r[1]);
(%o8) -sqrt(1-x^2)
```

```
(%i9) k2: rhs(r[2]);
(%o9) sqrt(1-x^2)
```

5.1

```
(%i10) e2: x+y-4=0;
```

```
(%o10) y+x-4=0
```

```
(%i11) algsys([e1,e2],[x,y]);
```

```
(%o11) [[x=-sqrt(14)*i-4/2, y=sqrt(2)*sqrt(7)*i+4/2], [x=sqrt(14)*i+4/2, y=-sqrt(2)*sqrt(7)*i-4/2]]
```

```
(%i12) p1: rhs(solve(e2,y)[1]);
```

```
(%o12) 4-x
```

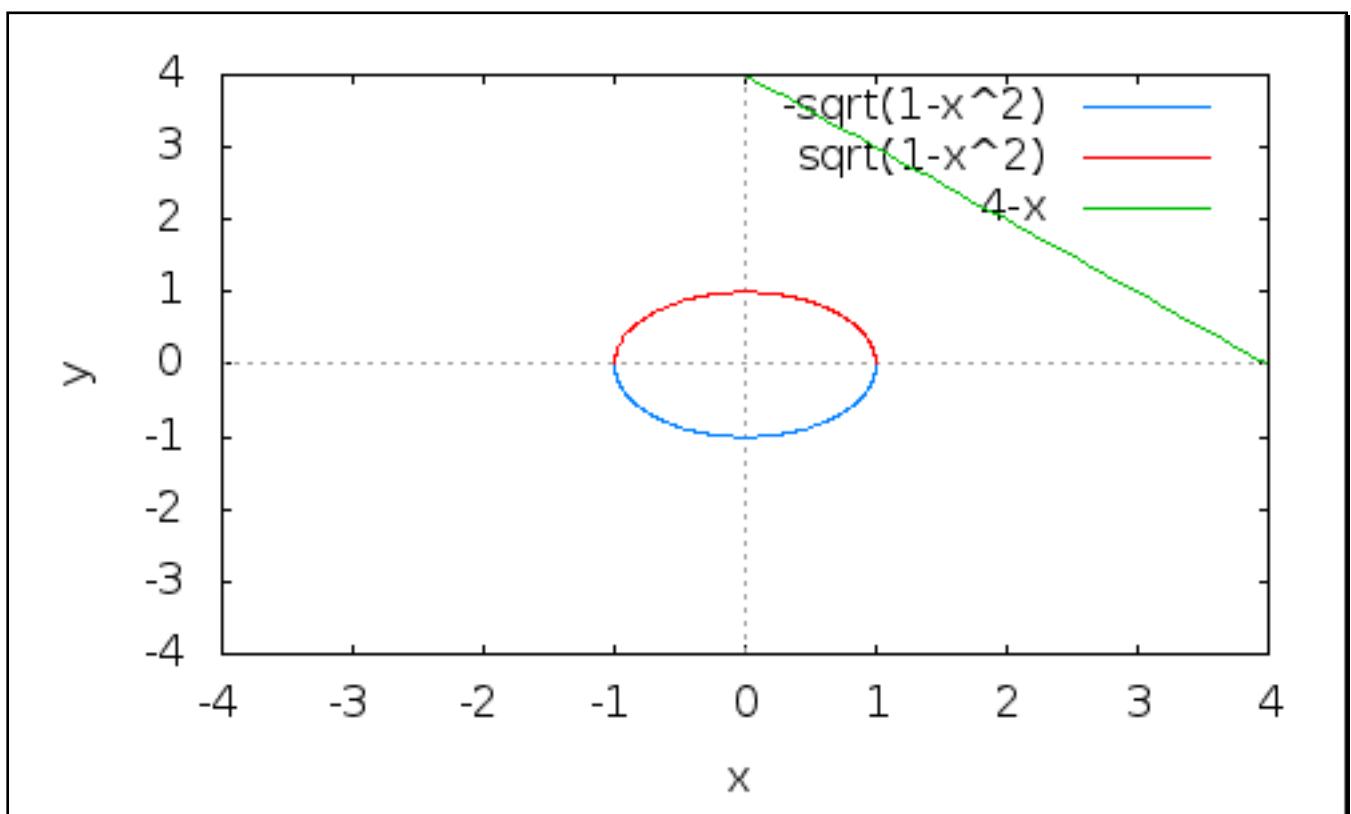
```
(%i13) wxplot2d([k1,k2,p1],[x,-4,4],[y,-4,4]);
```

plot2d: expression evaluates to non-numeric value somewhere in plotting range.

plot2d: expression evaluates to non-numeric value somewhere in plotting range.

plot2d: some values were clipped.

```
(%t13)
```



```
(%o13)
```

5.2

```
[%i14] e2: x+y-1=0;
```

```
(%o14) y+x-1=0
```

```
[%i15] algsys([e1,e2],[x,y]);
```

```
(%o15) [[x=1, y=0], [x=0, y=1]]
```

```
[%i16] p1: rhs(solve(e2,y)[1]);
```

```
(%o16) 1-x
```

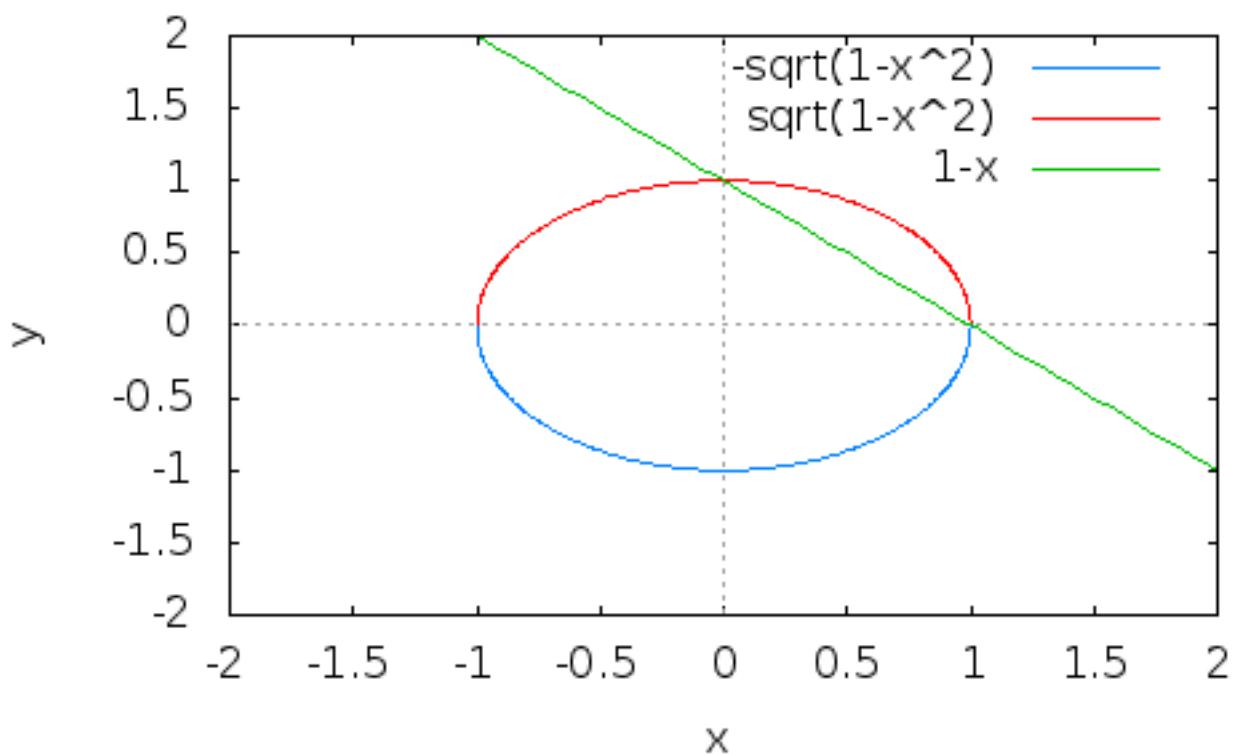
```
[%i17] wxplot2d([k1,k2,p1],[x,-2,2],[y,-2,2]);
```

plot2d: expression evaluates to non-numeric value somewhere in plotting range.

plot2d: expression evaluates to non-numeric value somewhere in plotting range.

plot2d: some values were clipped.

```
(%t17)
```



```
(%o17)
```

5.3

```
[%i18] e2: x+y-sqrt(24)=0;
```

```
(%o18) y+x-2*sqrt(6)=0
```

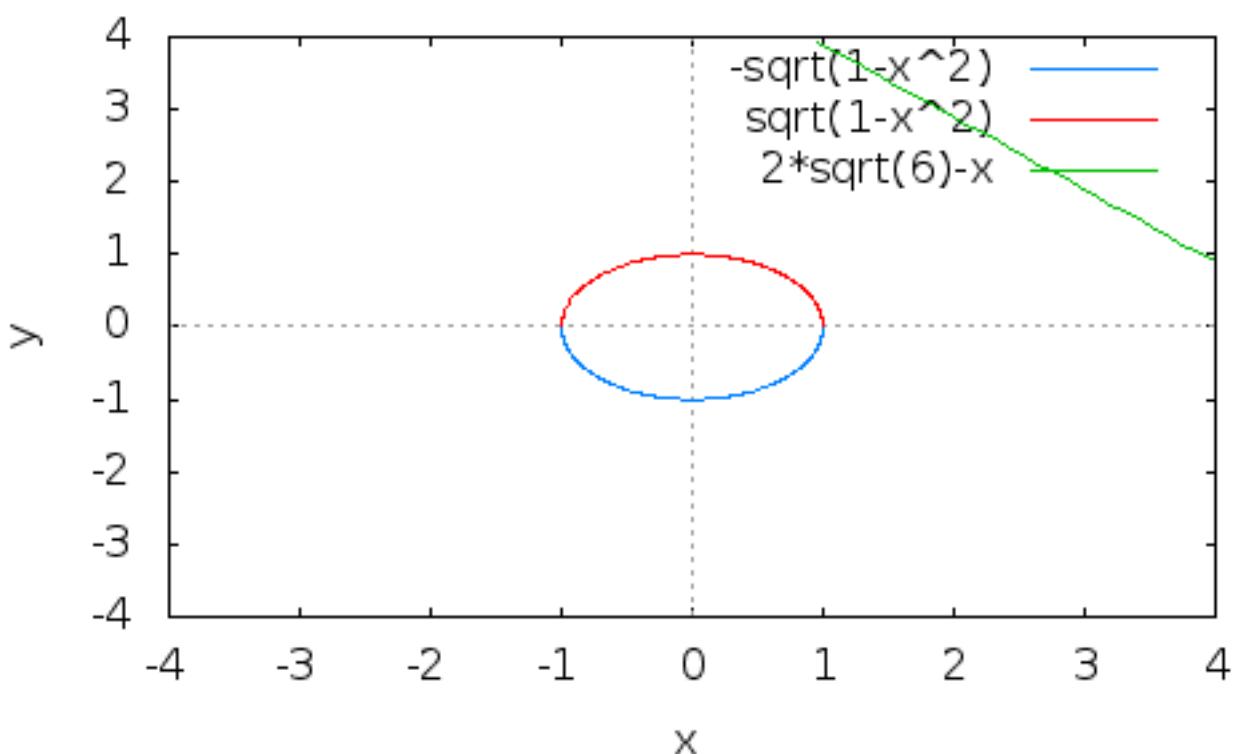
```
(%i19) algsys([e1,e2],[x,y]);
(%o19) [ [x=- $\frac{\sqrt{22} \text{i}-2 \sqrt{6}}{2}$ , y= $\frac{\sqrt{2} \sqrt{11} \text{i}+2^{3/2} \sqrt{3}}{2}$ ], [x= $\frac{\sqrt{22} \text{i}+2 \sqrt{6}}{2}$ 
, y= $-\frac{\sqrt{2} \sqrt{11} \text{i}-2^{3/2} \sqrt{3}}{2}$ ] ]
```

```
(%i20) p1: rhs(solve(e2,y)[1]);
(%o20) 2  $\sqrt{6}$ -x
```

```
(%i21) wxplot2d([k1,k2,p1],[x,-4,4],[y,-4,4]);
```

plot2d: expression evaluates to non-numeric value somewhere in plotting range.
plot2d: expression evaluates to non-numeric value somewhere in plotting range.
plot2d: some values were clipped.

```
(%t21)
```



```
(%o21)
```