```
> restart
```

1. a)

```
> solve(x**3 - 3*x**2 - 13*x + 15=0, x, real)
```

$$5,\ 1,\ -3 \qquad (1)$$

2.

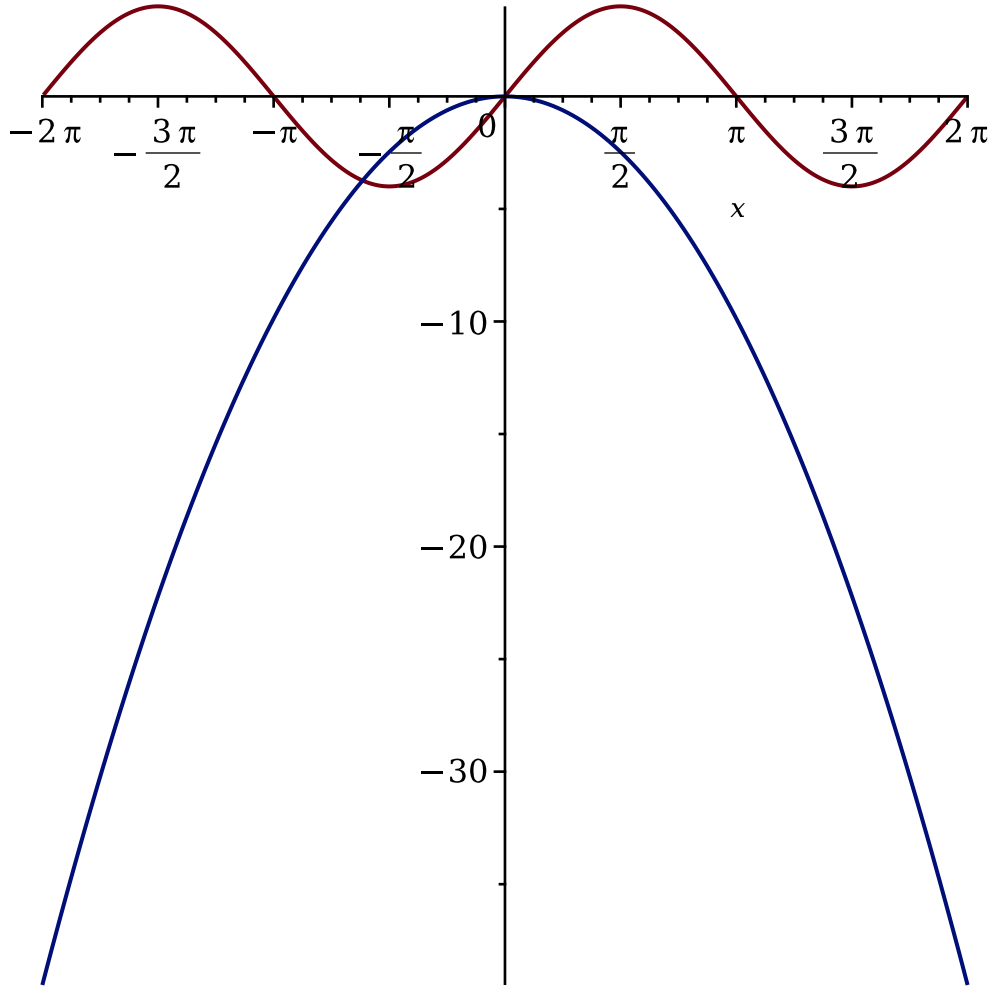
```
> solve(abs(x-a)-a = 0, real)
```

$$\{x = 0,\ 0 \le a\},\ \{x = 2\,a,\ 0 < a\} \qquad (2)$$

Reseni jsou dve kvuli absolutni hodnote v R

Reseni jsou dve kvuli absolutni hodnote v R (3)

```
> plot([4*sin(x), -x**2])
```



2 *koreny*

2 koreny (4)

```
> evalf(allvalues(solve(4*sin(x) = -x**2)))
```

$$-1.933753763,\ 0. \qquad (5)$$

```
> allvalues(solve([x+y=0, x**2 - x*y + 1 = 0]))
```

$$\left\{x = \frac{I}{2}\sqrt{2},\ y = -\frac{I}{2}\sqrt{2}\right\},\ \left\{x = -\frac{I}{2}\sqrt{2},\ y = \frac{I}{2}\sqrt{2}\right\} \qquad (6)$$