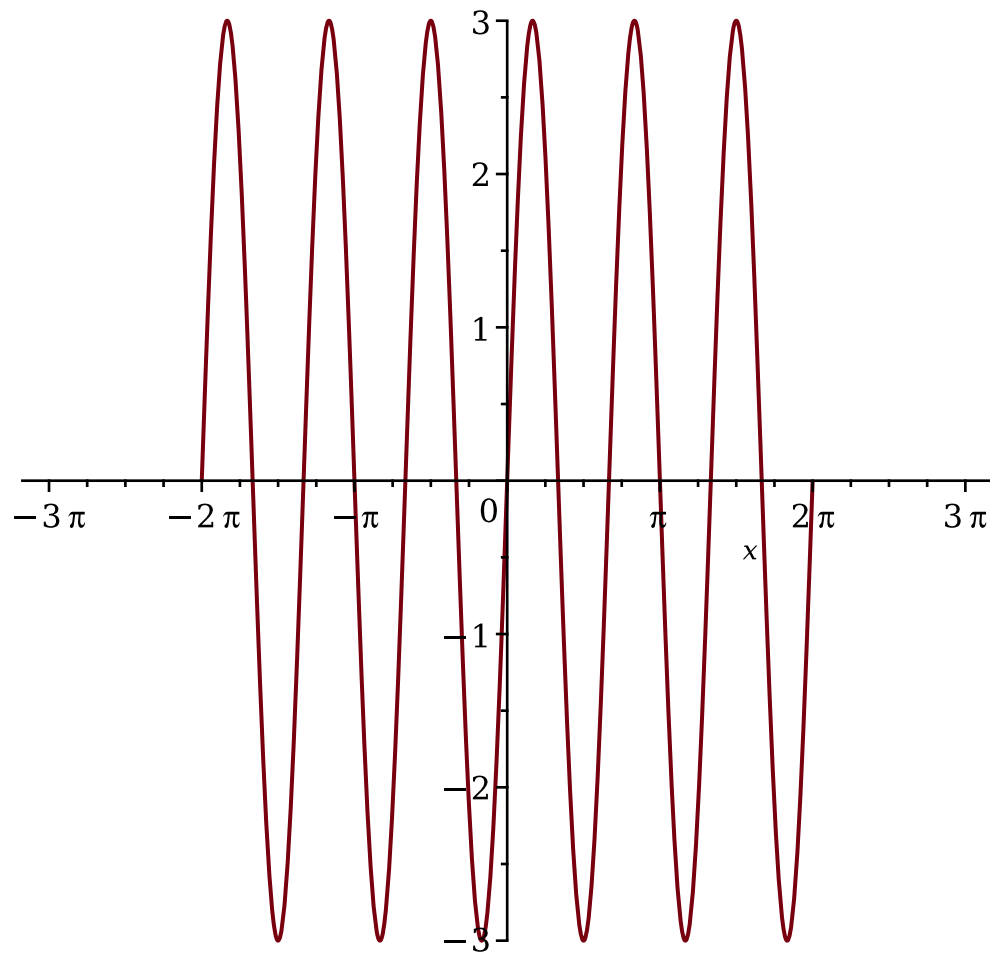
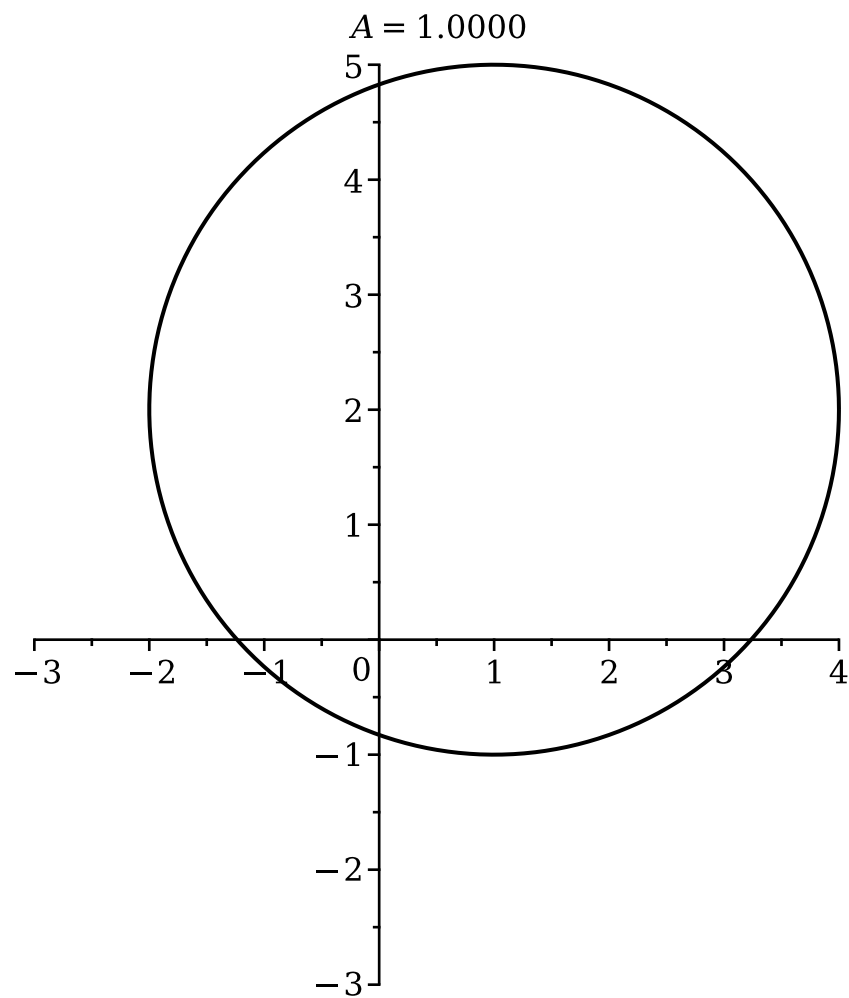


```
[> restart  
=> with(plottools):  
=> with(plots):
```

```
[1)  
=> animate(plot, [A*sin(A*x)], A=-1..3)  
A = 3.0000
```



```
[2)  
=> animate(circle, [[A, 2*A],3], A=0..1, scaling=constrained)
```



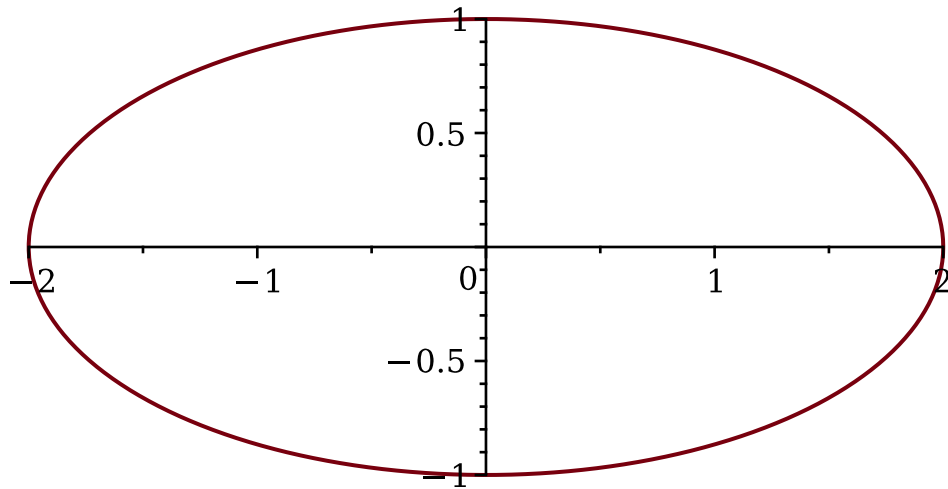
3)

```

1  sq := proc(t)
2      local elipsa, ctvercek
3      elipsa := plot([2*cos(s), sin(s), s=0..2*Pi]);
4      ctvercek:= point([2*cos(t), sin(t)], symbol='solidbox', symbolsize=30);
5      display(elipsa, ctvercek);
6  end proc;
```

**> animate(sq, [A], A=0..2\*Pi, scaling=constrained)**

$$A = 6.2832$$

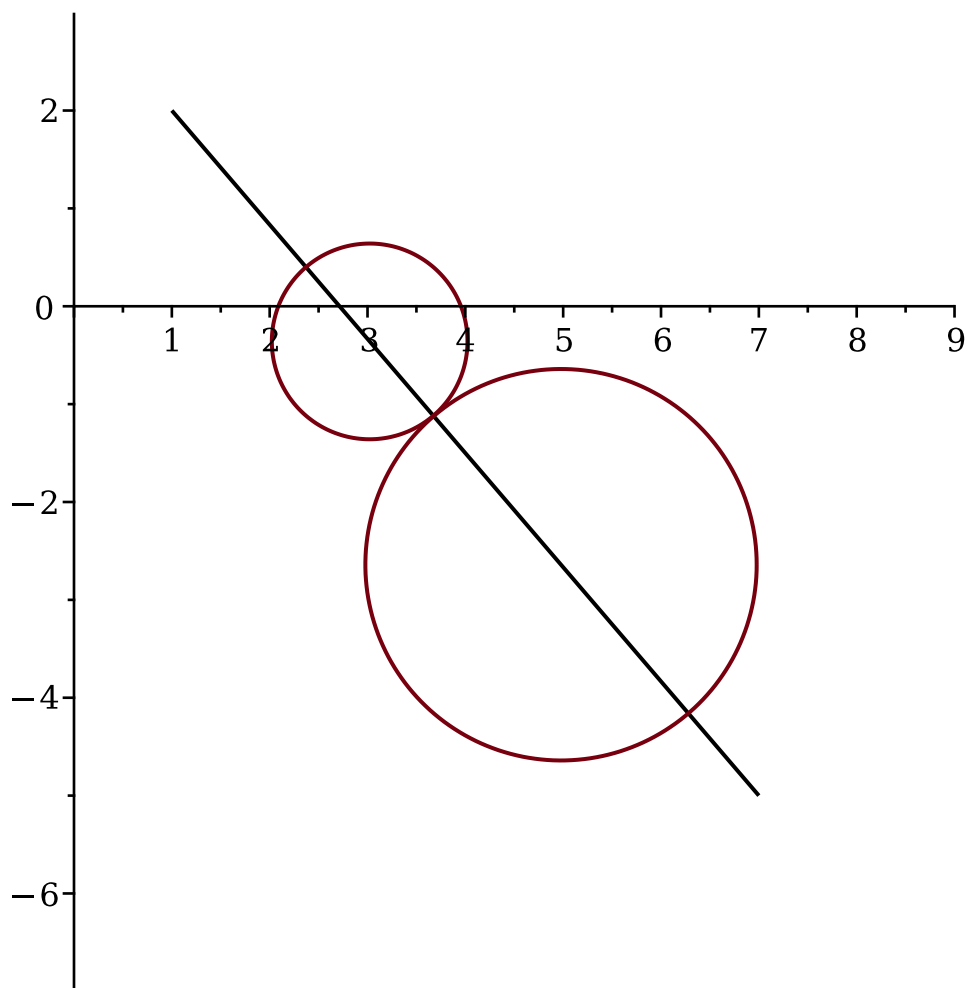


4)

a)

```
1 kruznice := proc (par)
2   local k1, k2, usecka:
3   usecka := line ([1, 2], [7, -5]):
4   k1 := plot ([cos(t)+(1+6*par), sin(t)+(2-7*par), t=0..2*Pi]):
5   k2 := plot ([2*cos(t)+(7-6*par), 2*sin(t)-(5-7*par), t=0..2*Pi]):
6   display (usecka, k1, k2):
7 end proc:
```

**> animate(kruznice, [A], A=0..0.337, scaling=constrained,  
paraminfo=false); # bulharske konstanty introduced**



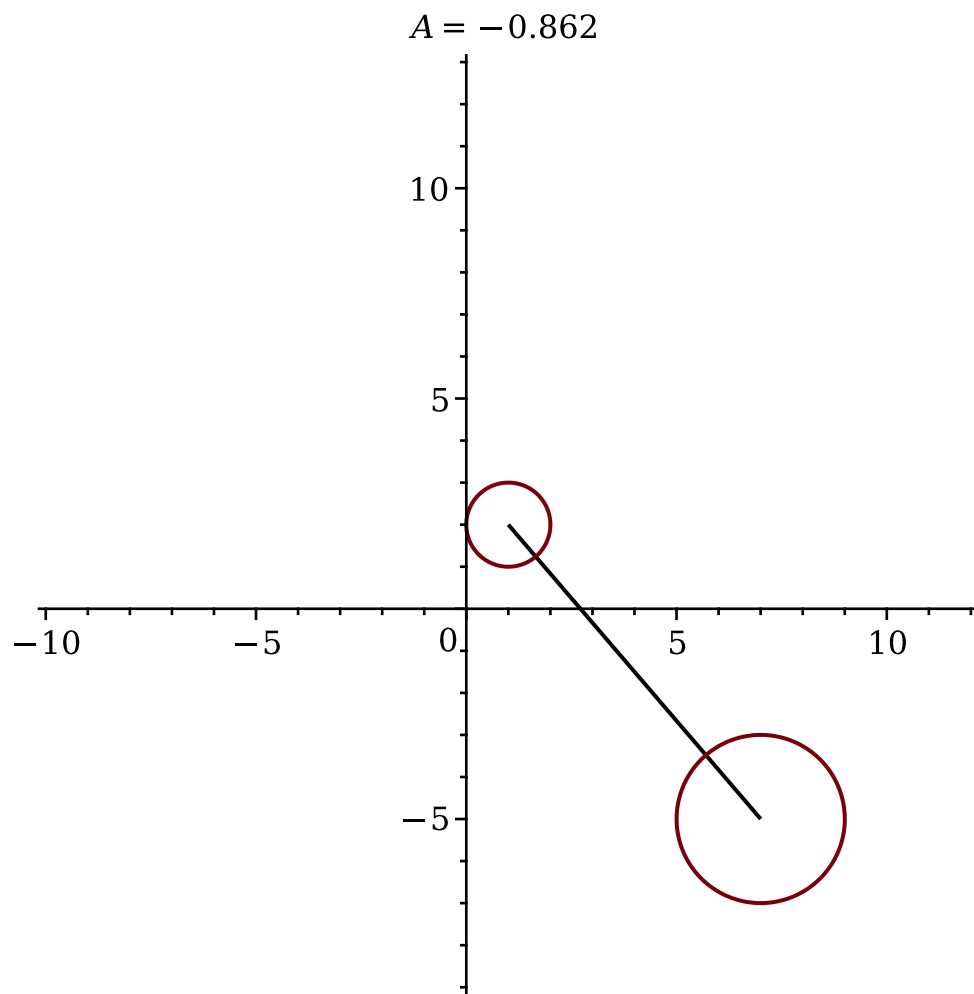
b)

```

1 kruznice := proc (par)
2   local k1, k2, usecka:
3   usecka := line ([1, 2], [sqrt(7**2 + 6**2)*cos(par)+1, sqrt(7**2 + 6**2)*sin(par)+2]);
4   k1 := plot ([cos(t)+1, sin(t)+2, t=0..2*Pi]);
5   k2 := plot ([2*cos(t)+sqrt(7**2 + 6**2)*cos(par)+1, 2*sin(t)+sqrt(7**2 + 6**2)*sin(par)+2, t=0..2*Pi]);
6   display (usecka, k1, k2);
7 end proc:

```

**> animate(kruznice, [A], A=-.862..5.421, scaling=constrained);  
#bulharske konstanty introduced**



c)

```

1 kruznice := proc (par)
2   local k1, k2, usecka, r;
3   r := sqrt(7**2 + 6**2)*0.5;
4   usecka := line([r*cos(par+.862)-1.5, r*sin(par+.862)+3], [r*cos(par-.862)-1.5, r*sin(par-.862)+3]);
5   k1 := plot([cos(t)+r*cos(par+.862)-1.5, sin(t)+r*sin(par+.862)+3, t=0..2*Pi]);
6   k2 := plot([2*cos(t)+r*cos(par-.862)-1.5, 2*sin(t)+r*sin(par-.862)+3, t=0..2*Pi]);
7   display(usecka, k1, k2);
8 end proc;
```

> **animate(kruznice, [A], A=0..2\*Pi, scaling=constrained); #neni to ono, ale je to cool a nemam cas to predelat**

$$A = 6.2832$$

