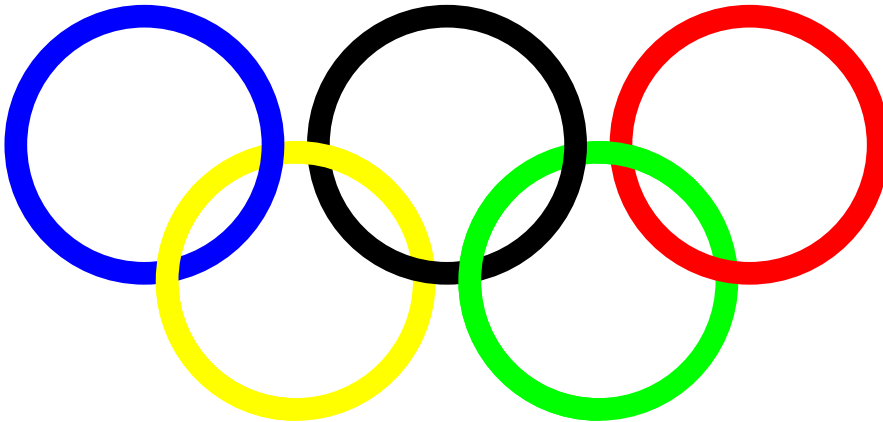
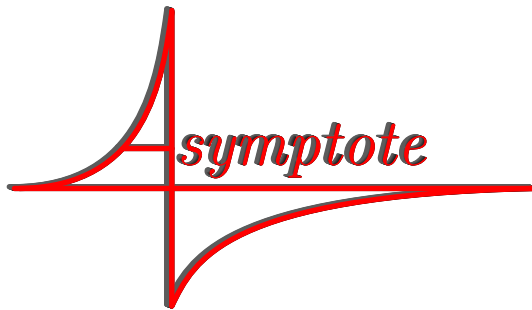
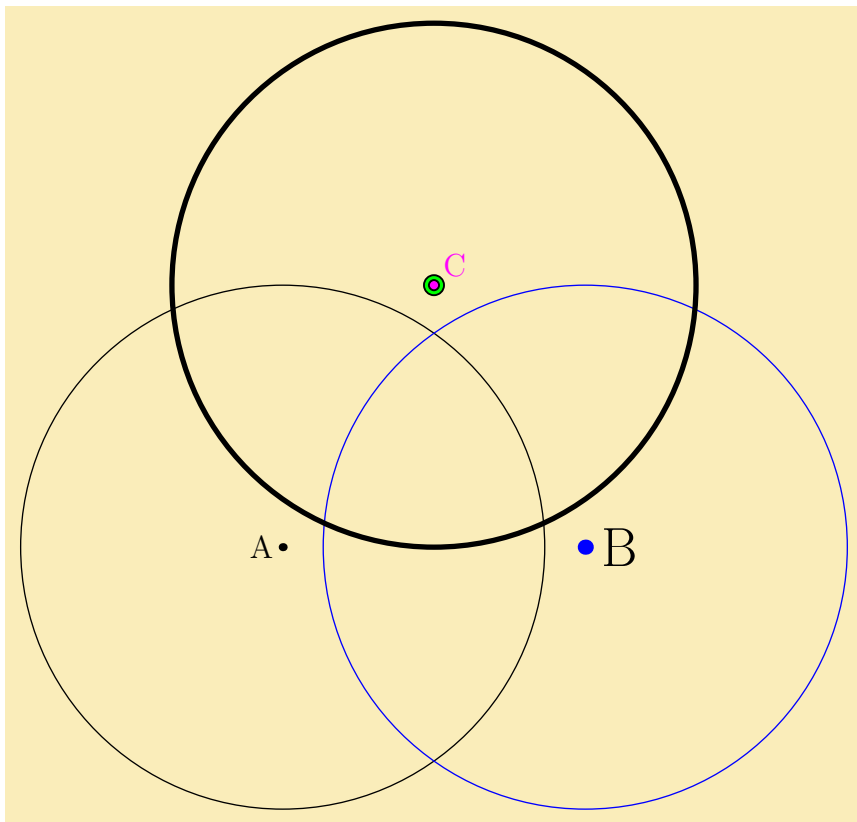




```

unitsize(2cm);
real h, r;
h=0.9;
r=0.85;
pair A, B, C, D, E;
A=(-1,0); B=(1,0); C=(0,h); D=(2,h); E=(-2,h);
path k1, k2, k3, k4, k5;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r); k4=circle(D,r); k5=circle(E,r);
draw(k1,yellow+3mm); draw(k2,green+3mm); draw(k3,black+3mm); draw(k4,red+3mm); draw(k5,blue+3mm);
path obluk1=subpath(k1,1.5,3); draw(obluk1,yellow+3mm);
path obluk2=subpath(k1,0.5,1); draw(obluk2,yellow+3mm);
path obluk3=subpath(k2,1.5,3); draw(obluk3,green+3mm);
path obluk4=subpath(k2,0.5,1); draw(obluk4,green+3mm);

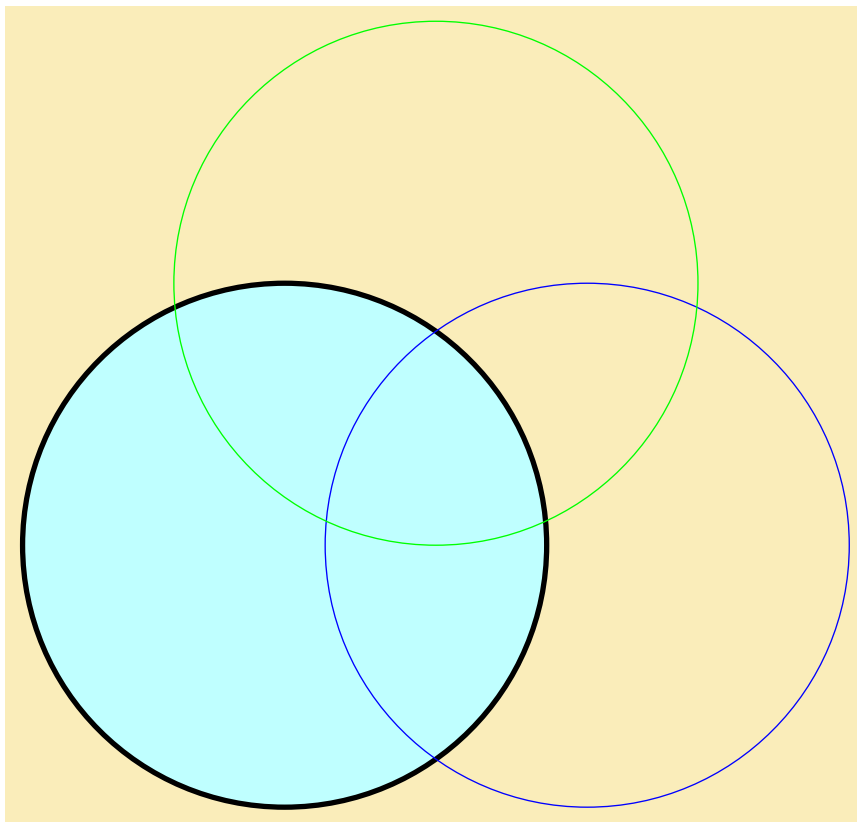
```



```

unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
draw(k1); draw(k2,blue); draw(k3,linewidth(0.7mm));
dot(A); dot(B,blue+2mm); dot(C,green+0.4mm,FillDraw(magenta,black+0.9mm));
label("A",A,left); label("B",B,right,fontsize(20pt)); label("C",C,right+up,magenta);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

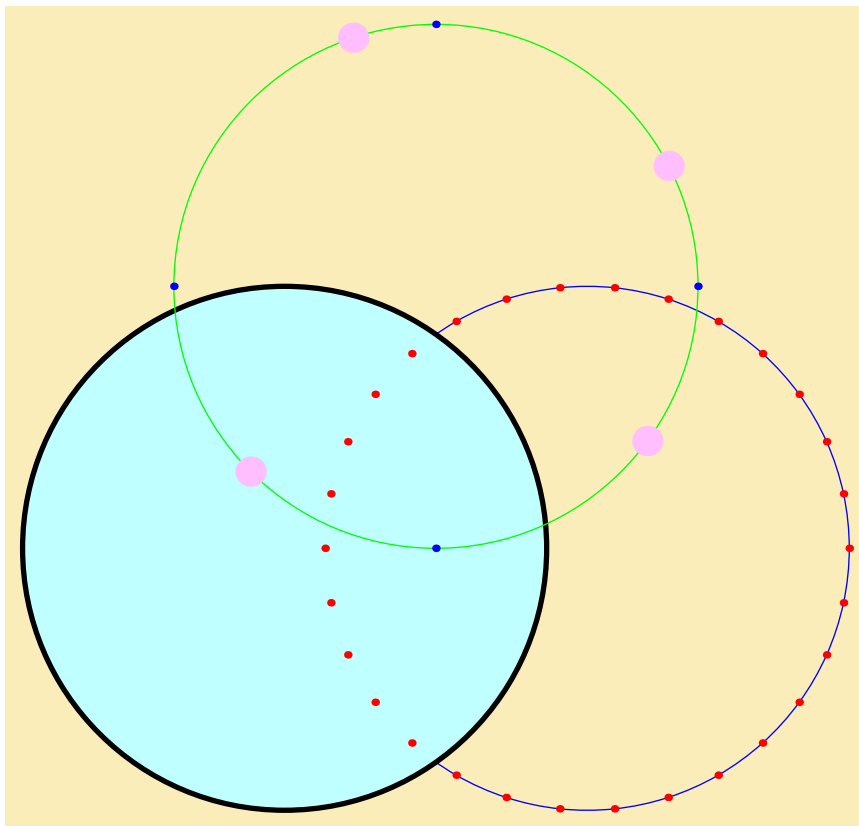
```



```

unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
filldraw(k1,palecyan,linewidth(0.7mm)); draw(k2,blue); draw(k3,green);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

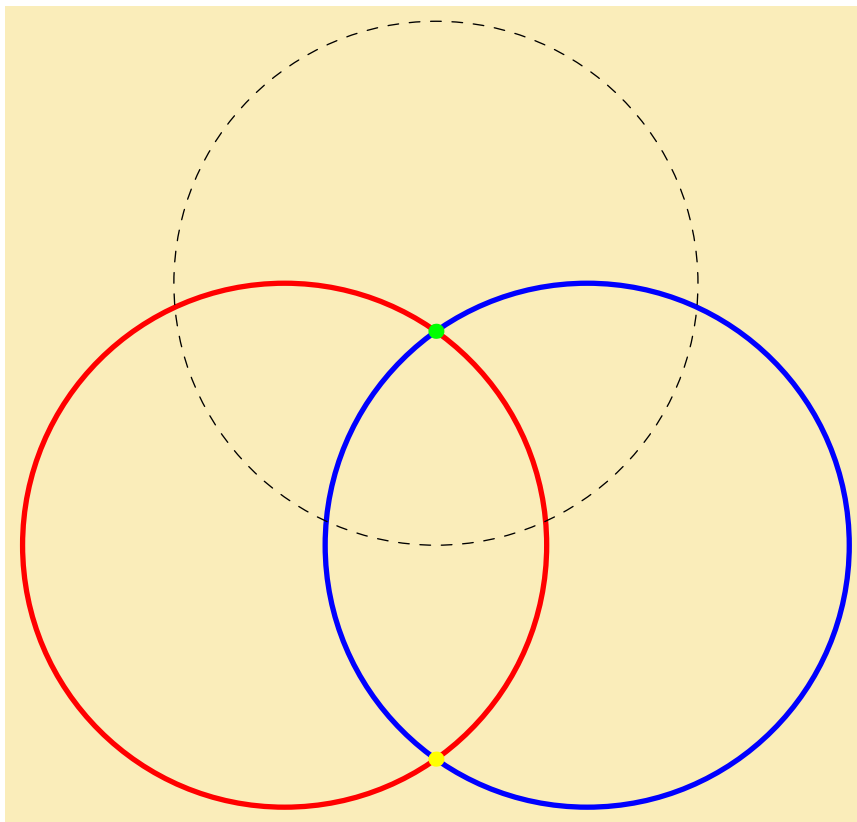
```



```

import graph;
unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=Circle(B,r,30); k3=circle(C,r);
draw(k2,blue); filldraw(k1,palecyan,linewidth(0.7mm)); draw(k3,green);
dot(k2,red+1mm); dot(k3,blue+1mm);
pair D, E, F, G;
D=point(k3,0.3); E=point(k3,1.2); F=point(k3,2.5); G=point(k3,3.6);
dot(D,pink+4mm); dot(E,pink+4mm); dot(F,pink+4mm); dot(G,pink+4mm);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

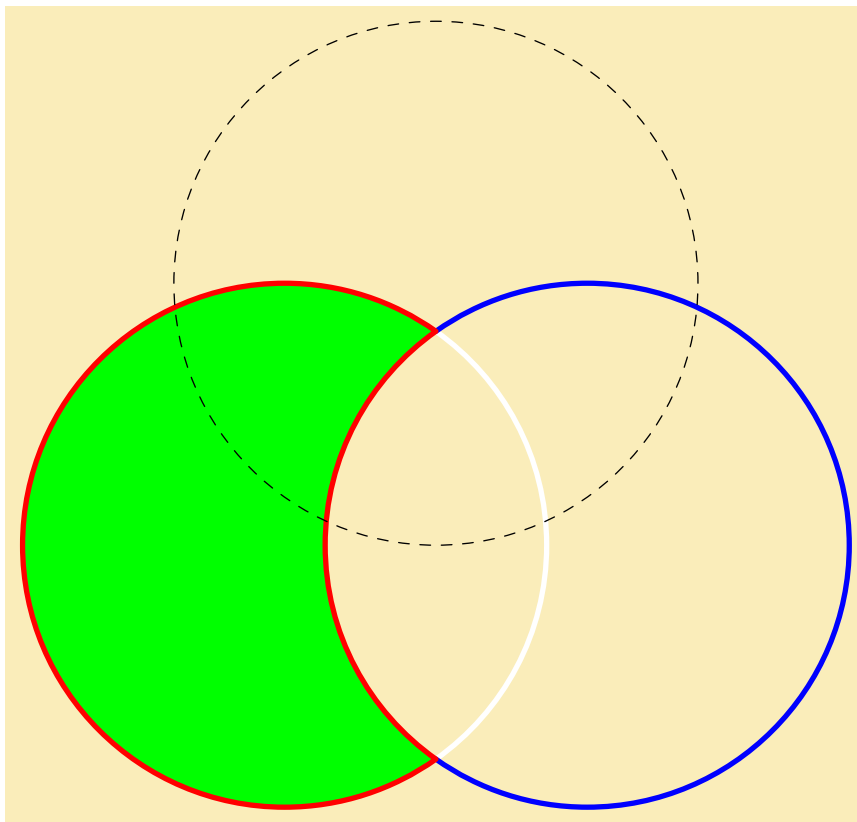
```



```

unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
draw(k1,red+0.7mm); draw(k2,blue+0.7mm); draw(k3,dashed);
pair[] priesecnik=intersectionpoints(k1,k2);
dot(priesecnik[0],green+2mm); dot(priesecnik[1],yellow+2mm);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

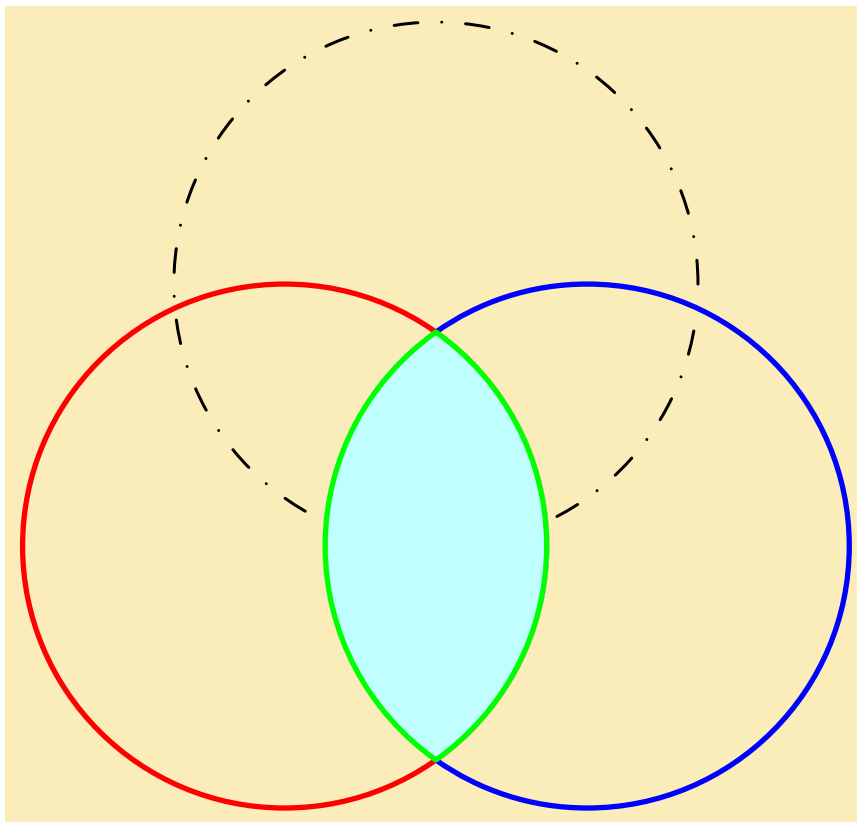
```



```

unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
real[] [] poloha=intersections(k1,k2,fuzz=-1);
path cesta1=subpath(k1,poloha[0][0],poloha[1][0]);
path cesta2=subpath(k2,poloha[0][1],poloha[1][1]);
path cesta3=(subpath(k2,poloha[1][1],4)..subpath(k2,0,poloha[0][1]));
path cesta4=(subpath(k1,poloha[1][0],4)..subpath(k1,0,poloha[0][0]));
draw(cesta4,white+0.7mm);
draw(cesta3,blue+0.7mm);
path cesta=(cesta1..reverse(cesta2)..cycle);
filldraw(cesta,green,red+0.7mm);
draw(k3,dashed);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

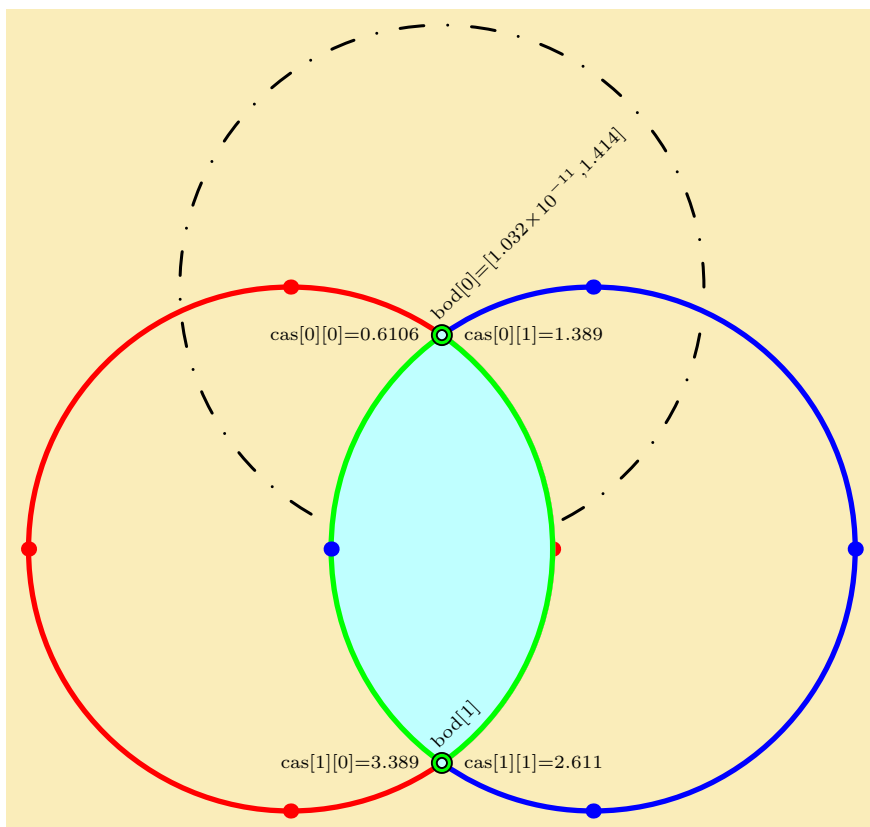
```



```

unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
draw(k1,red+0.7mm); draw(k3,dashdotted+0.4mm);
real[] [] poloha=intersections(k1,k2,fuzz=-1);
path cesta1=subpath(k1,poloha[0][0],poloha[1][0]);
path cesta2=subpath(k2,poloha[0][1],poloha[1][1]);
path cesta3=(subpath(k2,poloha[1][1],4)..subpath(k2,0,poloha[0][1]));
path cesta4=(subpath(k1,poloha[1][0],4)..subpath(k1,0,poloha[0][0]));
draw(cesta4,white+0.7mm); draw(cesta3,blue+0.7mm);
path cesta0=(cesta4..cesta2..cycle);
filldraw(cesta0,palecyan,green+0.7mm);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

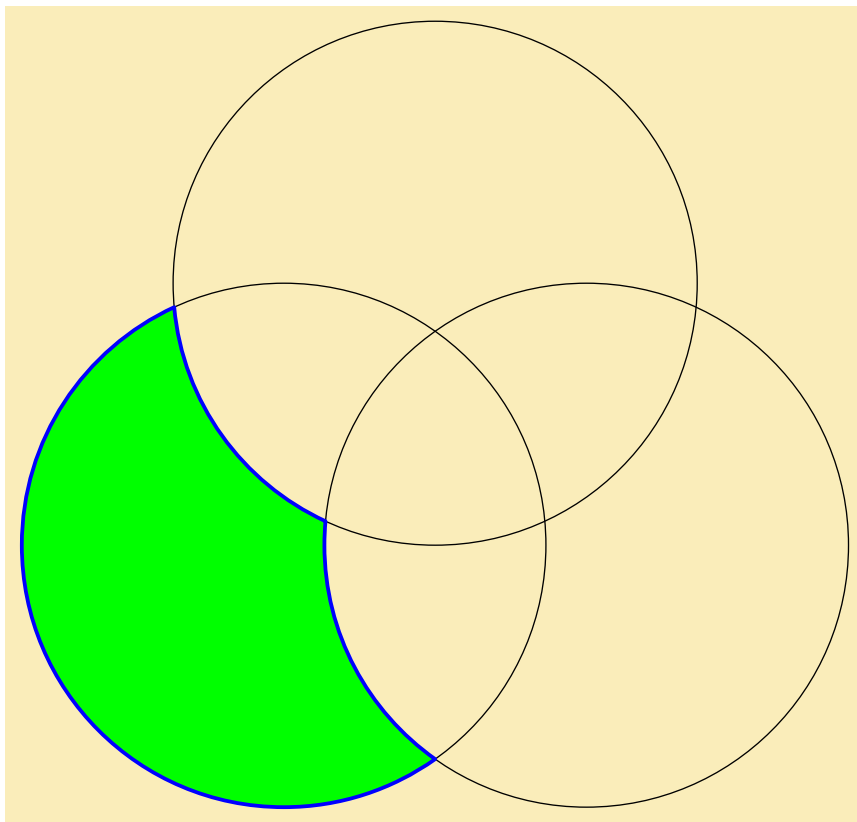
```



```

unitsize(2cm);
real r; r=sqrt(3); pair A, B, C; A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3; k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
draw(k1,red+0.7mm); draw(k3,dashdotted+0.4mm); dot(k1,red+2mm);
pair[] bod=intersectionpoints(k1,k2);
real[][] cas=intersections(k1,k2,fuzz=-1);
path cesta1=subpath(k1,cas[0][0],cas[1][0]);
path cesta2=subpath(k2,cas[0][1],cas[1][1]);
path cesta3=(subpath(k2,cas[1][1],4)..subpath(k2,0,cas[0][1]));
path cesta4=(subpath(k1,cas[1][0],4)..subpath(k1,0,cas[0][0]));
draw(cesta4,white+0.7mm); draw(cesta3,blue+0.7mm);
path cesta0=(cesta4..cesta2..cycle); filldraw(cesta0,palecyan,green+0.7mm);
string pocet00=format(cas[0][0]);
label("cas[0][0]="+pocet00,bod[0],4*left,black+fontsize(7pt));
string pocet01=format(cas[0][1]);
label("cas[0][1]="+pocet01,bod[0],4*right,black+fontsize(7pt));
string pocet10=format(cas[1][0]);
label("cas[1][0]="+pocet10,bod[1],4*left,black+fontsize(7pt));
string pocet11=format(cas[1][1]);
label("cas[1][1]="+pocet11,bod[1],4*right,black+fontsize(7pt));
dot(bod[0],green+0.4mm,FillDraw(palecyan,black+0.9mm));
dot(bod[1],green+0.4mm,FillDraw(palecyan,black+0.9mm));
string suradnice0="bod[0]="+format(bod[0].x)+" "+format(bod[0].y)+" ";
label(rotate(45)*suradnice0,bod[0],2*up,black+fontsize(7pt));
string suradnice1="bod[1] "; label(rotate(45)*suradnice1,bod[1],2*up,black+fontsize(7pt));
dot(k2,blue+2mm); shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

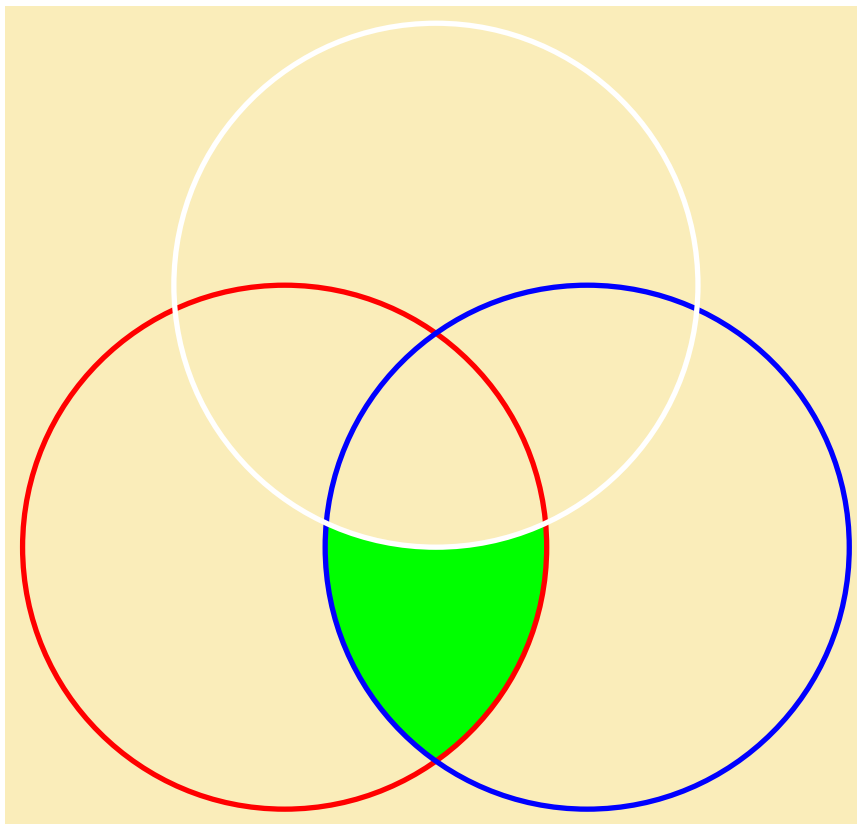
```



```

unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
draw(k1); draw(k2); draw(k3);
real[] [] poloha12=intersections(k1,k2,fuzz=-1);
real[] [] poloha13=intersections(k1,k3,fuzz=-1);
real[] [] poloha23=intersections(k2,k3,fuzz=-1);
path obluk1=subpath(k1,poloha13[1][0],poloha12[1][0]);
path obluk2=subpath(k2,poloha23[1][0],poloha12[1][1]);
path obluk3=subpath(k3,poloha13[1][1],poloha23[1][1]);
path cesta=(obluk1..reverse(obluk2)..reverse(obluk3)..cycle);
filldraw(cesta,green,blue+0.5mm);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

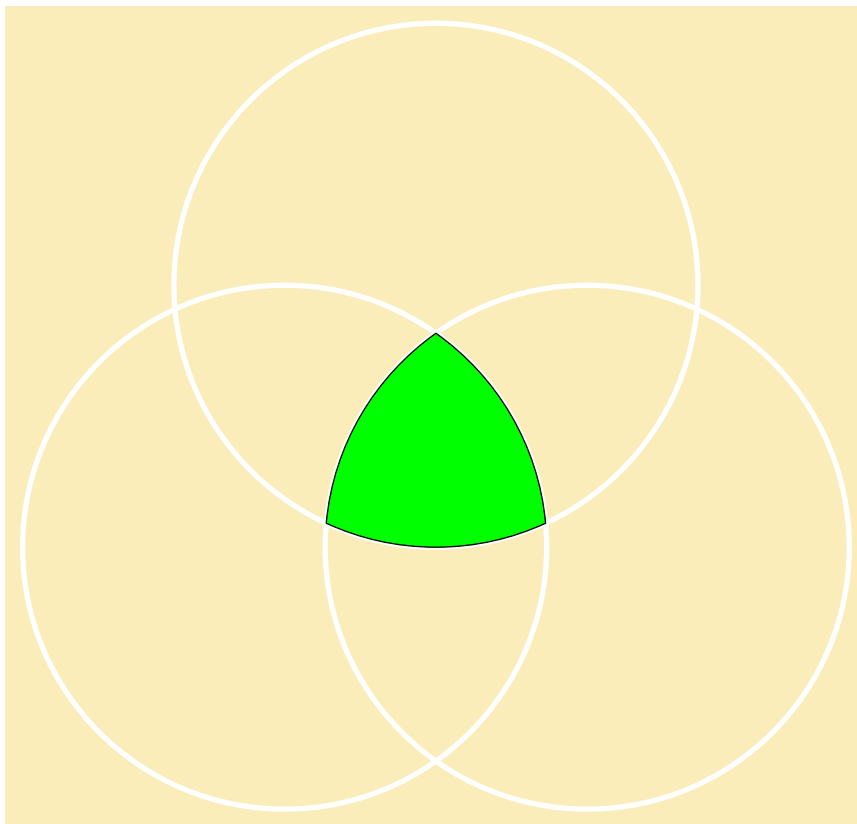
```



```

unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
real[] [] poloha12=intersections(k1,k2,fuzz=-1);
real[] [] poloha13=intersections(k1,k3,fuzz=-1);
real[] [] poloha23=intersections(k2,k3,fuzz=-1);
path obluk1=(subpath(k1,poloha12[1][0],4)..subpath(k1,0,poloha13[0][0]));
path obluk2=subpath(k3,poloha23[1][1],poloha13[0][1]);
path obluk3=subpath(k2,poloha23[1][0],poloha12[1][1]);
path cesta=(obluk1..reverse(obluk2)..obluk3..cycle);
filldraw(cesta,green);
draw(k1,red+0.7mm); draw(k2,blue+0.7mm); draw(k3,white+0.7mm);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

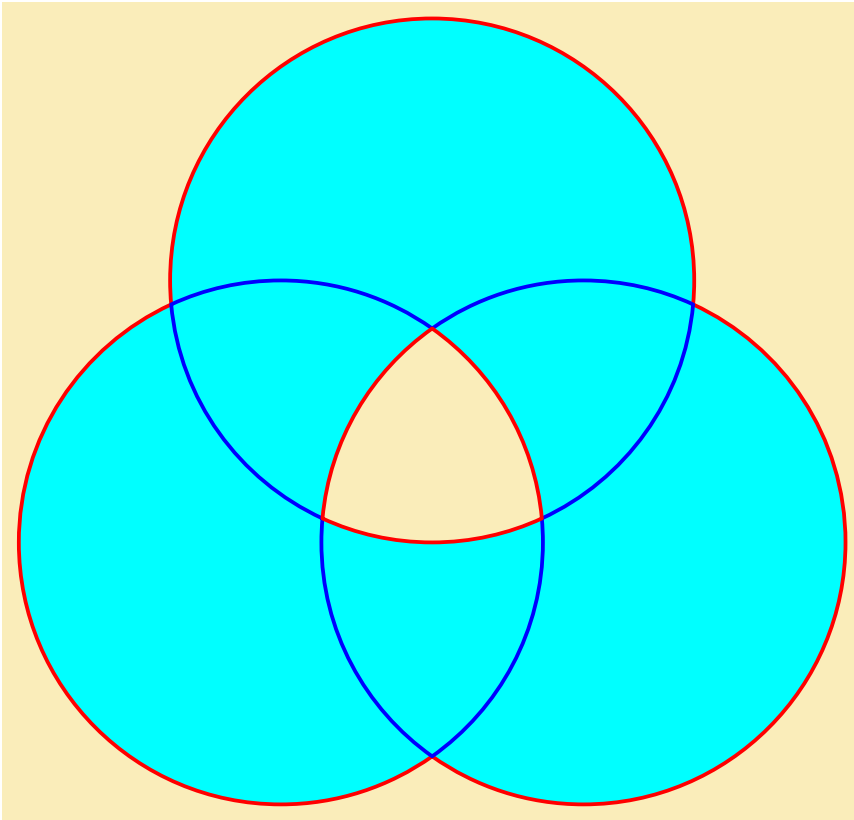
```



```

unitsize(2cm);
real r;
r=sqrt(3);
pair A, B, C;
A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3;
k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
draw(k1,white+0.7mm); draw(k2,white+0.7mm); draw(k3,white+0.7mm);
real[] [] poloha12=intersections(k1,k2,fuzz=-1);
real[] [] poloha13=intersections(k1,k3,fuzz=-1);
real[] [] poloha23=intersections(k2,k3,fuzz=-1);
path obluk1=subpath(k3,poloha23[1][1],poloha13[0][1]);
path obluk2=subpath(k1,poloha13[0][0],poloha12[0][0]);
path obluk3=subpath(k2,poloha12[0][1],poloha23[1][0]);
path cesta=(obluk1..obluk2..obluk3..cycle);
filldraw(cesta,green);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

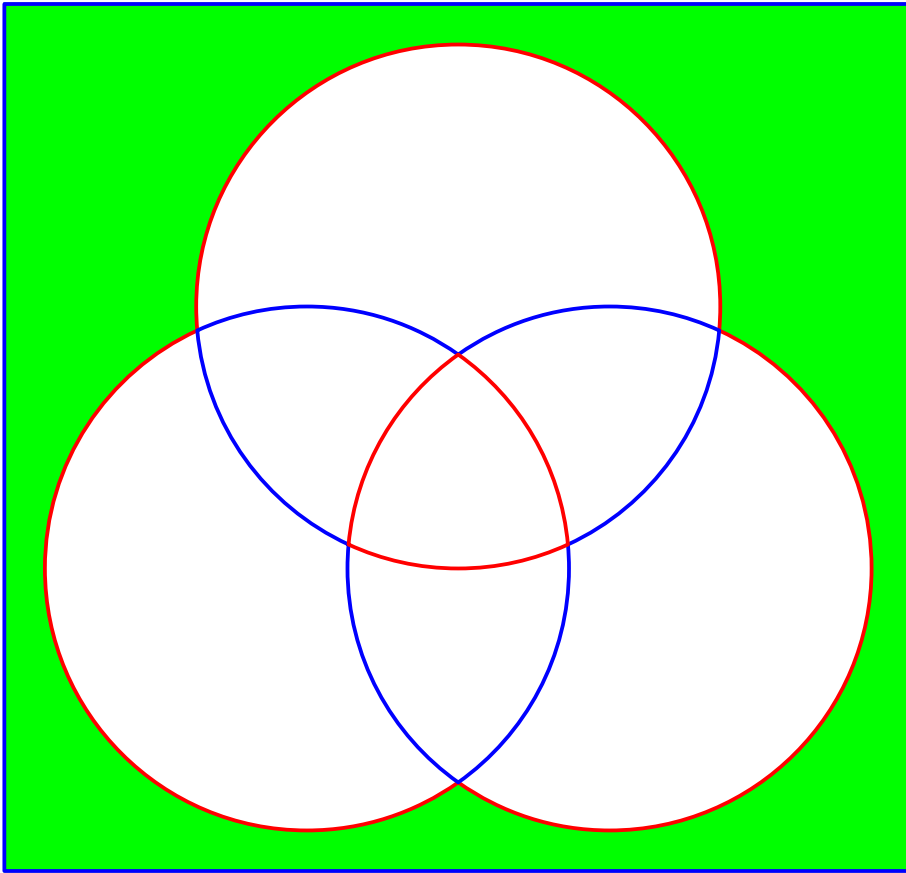
```



```

unitsize(2cm);
real r; r=sqrt(3);
pair A, B, C; A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3; k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
real[] [] poloha12=intersections(k1,k2,fuzz=-1);
real[] [] poloha13=intersections(k1,k3,fuzz=-1);
real[] [] poloha23=intersections(k2,k3,fuzz=-1);
path obluk1a=subpath(k1,poloha13[0][0],poloha12[0][0]);
path obluk1b=subpath(k1,poloha12[0][0],poloha13[1][0]);
path obluk1c=subpath(k1,poloha13[1][0],poloha12[1][0]);
path obluk1d=subpath(k1,poloha12[1][0],4)..subpath(k1,0,poloha13[0][0]);
path obluk2a=subpath(k2,poloha23[0][0],poloha12[0][1]);
path obluk2b=subpath(k2,poloha12[0][1],poloha23[1][0]);
path obluk2c=subpath(k2,poloha23[1][0],poloha12[1][1]);
path obluk2d=subpath(k2,poloha12[1][1],4)..subpath(k2,0,poloha23[0][0]);
path obluk3a=subpath(k3,poloha13[1][1],poloha23[1][1]);
path obluk3b=subpath(k3,poloha23[1][1],poloha13[0][1]);
path obluk3c=subpath(k3,poloha13[0][1],poloha23[0][1]);
path obluk3d=subpath(k3,poloha23[0][1],4)..subpath(k3,0,poloha13[1][1]);
path cesta1=obluk1c..obluk2d..obluk3d..cycle;
path cesta2=obluk1b..obluk3a..obluk2c..obluk1d..obluk3c..obluk2a..cycle;
path cesta3=obluk2b..obluk3b..obluk1a..cycle;
fill(cesta1^^cesta3,evenodd+cyan);
draw(cesta1,red+0.5mm); draw(cesta2,blue+0.5mm); draw(cesta3,red+0.5mm);
shipout(bbox(2mm,Fill(rgb(0.98,0.93,0.73))));

```



```

unitsize(2cm); real r; r=sqrt(3); pair A, B, C; A=(-1,0); B=(1,0); C=(0,r);
path k1, k2, k3; k1=circle(A,r); k2=circle(B,r); k3=circle(C,r);
real[] [] poloha12=intersections(k1,k2,fuzz=-1);
real[] [] poloha13=intersections(k1,k3,fuzz=-1);
real[] [] poloha23=intersections(k2,k3,fuzz=-1);
path obluk1a=subpath(k1,poloha13[0][0],poloha12[0][0]);
path obluk1b=subpath(k1,poloha12[0][0],poloha13[1][0]);
path obluk1c=subpath(k1,poloha13[1][0],poloha12[1][0]);
path obluk1d=subpath(k1,poloha12[1][0],4)..subpath(k1,0,poloha13[0][0]);
path obluk2a=subpath(k2,poloha23[0][0],poloha12[0][1]);
path obluk2b=subpath(k2,poloha12[0][1],poloha23[1][0]);
path obluk2c=subpath(k2,poloha23[1][0],poloha12[1][1]);
path obluk2d=subpath(k2,poloha12[1][1],4)..subpath(k2,0,poloha23[0][0]);
path obluk3a=subpath(k3,poloha13[1][1],poloha23[1][1]);
path obluk3b=subpath(k3,poloha23[1][1],poloha13[0][1]);
path obluk3c=subpath(k3,poloha13[0][1],poloha23[0][1]);
path obluk3d=subpath(k3,poloha23[0][1],4)..subpath(k3,0,poloha13[1][1]);
path cesta1=obluk1c..obluk2d..obluk3d..cycle;
path cesta2=obluk1b..obluk3a..obluk2c..obluk1d..obluk3c..obluk2a..cycle;
path cesta3=obluk2b..obluk3b..obluk1a..cycle;
pair D, E, F, G; D=(-3,-2); E=(-3,2+r); F=(3,2+r); G=(3,-2);
dot(D,linewidth(0mm)); dot(F,linewidth(0mm)); filloutside(cesta1,green);
draw(cesta1,red+0.5mm); draw(cesta2,blue+0.5mm); draw(cesta3,red+0.5mm);
draw(D--E--F--G--cycle,blue+0.5mm);

```