```
> restart:
  with (plots):
                       0.1 0.05
  0.01 0.005
  ChZnPoZap:=3:
  ShagX:=evalf[1](1/10^ChZnPoZap);
  Theta[0]:=0:
  Theta[1]:=Pi/3:
  Theta[2]:=-Pi/3:
  Theta[3]:=0:
  for i from 0 to 3 do
            s[i]:=1/3:
            T[i]:=matrix(2,2,[s[i]*cos(Theta[i]),-s[i]*sin(Theta[i]
  ),s[i]*sin(Theta[i]),s[i]*cos(Theta[i])]):
 end do:
  v0:=matrix(2,1,[1,0]):
  for j from 0 to 3 do
            A[j] := evalf(evalm(add(evalm(T[i]&*v0),i=0..j))[1,1]);
            B[j]:=evalf(evalm(add(evalm(T[i]&*v0),i=0..j))[2,1]);
            C[j] := evalf(s[j]*cos(Theta[j])):
            E[j] := evalf(s[j]*sin(Theta[j])):
  end do:
  A[-1] := 0:
 B[-1] := 0:
  C[-1] := 0:
 E[-1] := 0:
  KoxaPlolnostu:= proc(t)
            local zz,i,eq1,eq2,j,jj,TT:
            #
             t
            j:=1:
            zz[1] := 0:
            while zz[j]<1+t do
                       eq1[j],eq2[j],TT[j]:=KoxaUrav(zz[j]):
                       zz[j+1] := zz[j] + t:
                       j:=j+1:
  end do:
```

```
subs(x[0.]=0,y[0.]=0,solve({seq(eq1[jj],jj=1..j-1),seq(eq2[jj],}
  j_{j=1..j-1}, {seq(x[zz[jj]],jj=1..j-1), seq(y[zz[jj]],jj=1..j-1)}))
       х , у
  subs(%,[seq([x[zz[jj]],y[zz[jj]],zz[jj]],jj=1..j-1)]);
  end proc:
    t
  KoxaUrav := proc(t)
            option remember;
            local eq1,eq2,i,T,qq,k:
             #
            k := 4:
            qq:=k*T-trunc(k*T):
            eq1:=x[t]=A[trunc(k*T)-1]+C[trunc(k*T)]*x[qq]-E[trunc(k*T)]
  (k*T)]*y[qq]:
            eq2:=y[t]=B[trunc(k*T)-1]+E[trunc(k*T)]*x[qq]+C[trunc(k*T)]
  (k*T)]*y[qq]:
            eq1,eq2,T;
  end proc:
  SaveFractalNotWar:=KoxaPlolnostu(ShaqX):
  ChisloUzlovFractala:=nops(SaveFractalNotWar)-1:
  KoxaFunction:= proc(t)
            option remember;
            local i:
            for i from 0 to ChisloUzlovFractala do
                       #print(i/ChisloUzlovFractala):
                       if t=i/ChisloUzlovFractala then
                                 RETURN([SaveFractalNotWar[i+1,1],
  SaveFractalNotWar[i+1,2]]);
                       fi:
            od:
            NULL:
  end proc:
                                                                       (1)
                            ShagX := 0.001
> plot([seq([KoxaFunction(ss/1000)[1],KoxaFunction(ss/1000)[2]], ss
  = 1 .. 1000)], thickness=2, color=red);
```

