```
theta := -\log(\cos(t));
                                                     \theta := -\ln(\cos(t))
                                                                                                                                 (1)
> zinfty := int\left(\cos(t)^{I}, t = 0 ... \frac{Pi}{2}\right);
                                            zinfty := \frac{\Gamma\left(\frac{1}{2} + \frac{1}{2}\right)\sqrt{\pi}}{2\Gamma\left(1 + \frac{1}{2}\right)}
                                                                                                                                 (2)
   zinfty := [[Re(evalf(zinfty)), Im(evalf(zinfty))]];
                                   zinfty := [[1.049478078, -0.5824562520]]
                                                                                                                                 (3)
> int \left(\cos(t)^{I}, t = 0 ... \frac{7 \cdot P_{1}}{100}\right);
                        \sin\left(\frac{7\pi}{100}\right) hypergeom \left(\left[\frac{1}{2}, \frac{1}{2} - \frac{I}{2}\right], \left[\frac{3}{2}\right], \sin\left(\frac{7\pi}{100}\right)^2\right)
                                                                                                                                 (4)
> croquette:=proc(n)
    local i,R,x,z;
    R := [[0,0]];
    i:=1;
    while i<n/2 do
          x:=i/n*Pi;
          z := \sin(x) * hypergeom([1/2,1/2-I/2],[3/2],\sin(x)^2);
          z:=evalf(z);
         R := [op(R), [Re(z), Im(z)]];
          i:=i+1;
    od;
    R;
    end:
    C3000 := croquette(3000):
\rightarrow display([plot(C3000), plot(zinfty, style = point, color = black)]);
                                                                               0.8
                                   -0.1
                                   -0.2
                                   -0.3
                                   -0.4
                                   -0.5
    kroquette:=proc(n,rho)
```

```
local i,R,x,z;
R := [[0,0]];
i:=2;
while i<n do
     x:=Pi/2-rho^i*Pi/2;
     z := \sin(x) * hypergeom([1/2,1/2-I/2],[3/2], \sin(x)^2);
    z:=evalf(z);
     R := [op(R), [Re(z), Im(z)]];
     i:=i+1;
od;
R;
end:
K1000 := kroquette\left(200, \frac{7}{8}\right):
display([plot(K1000), plot(zinfty, style = point, color = black)]);
                                                        0.8
                                                 0.6
                       -0.1
                       -0.2
                       -0.3
                       -0.4
                       -0.5
                       -0.6
with (plots);
  conformal3d, contourplot, contourplot3d, coordplot, coordplot3d, densityplot, display,
```

[animate, animate3d, animatecurve, arrow, changecoords, complexplot, complexplot3d, conformal, conformal3d, contourplot, contourplot3d, coordplot, coordplot3d, densityplot, display, dualaxisplot, fieldplot, fieldplot3d, gradplot, gradplot3d, implicitplot, implicitplot3d, inequal, interactive, interactiveparams, intersectplot, listcontplot, listcontplot3d, listdensityplot, listplot, listplot3d, loglogplot, logplot, matrixplot, multiple, odeplot, pareto, plotcompare, pointplot, pointplot3d, polarplot, polygonplot, polygonplot3d, polyhedra_supported, polyhedraplot, rootlocus, semilogplot, setcolors, setoptions, setoptions3d, shadebetween, spacecurve, sparsematrixplot, surfdata, textplot, textplot3d, tubeplot]