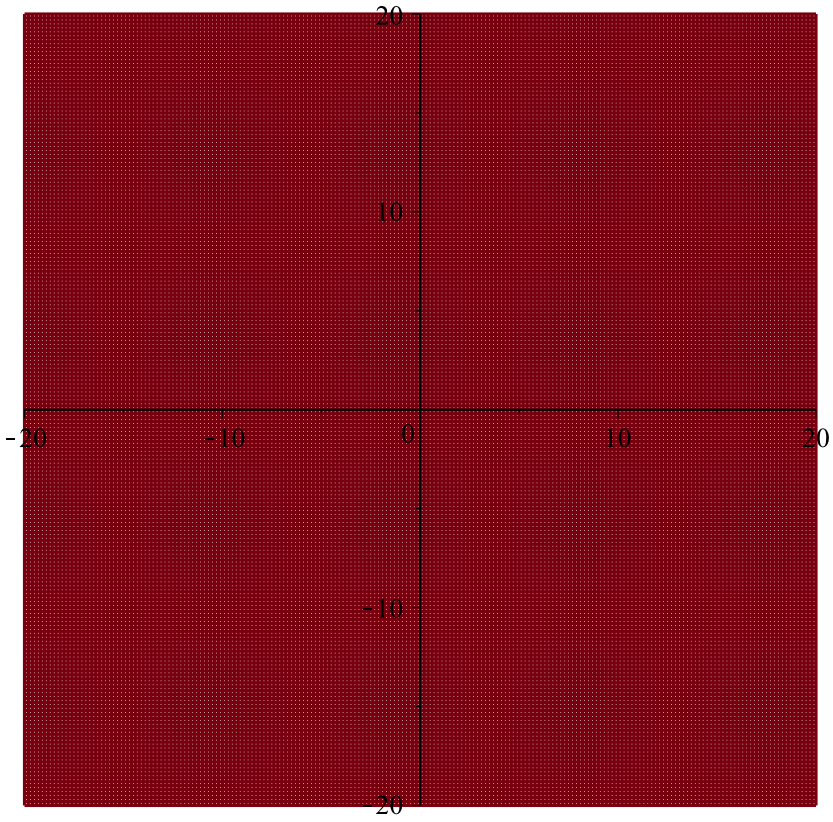
```
> restart;
> l:=[seq(t+I*n,n=-100..100),seq(I*t+n,n=-100..100)]/5:
> l[3];
```

$$\frac{1}{5}\,t-\frac{98}{5}\,\mathrm{I} \tag{1}$$

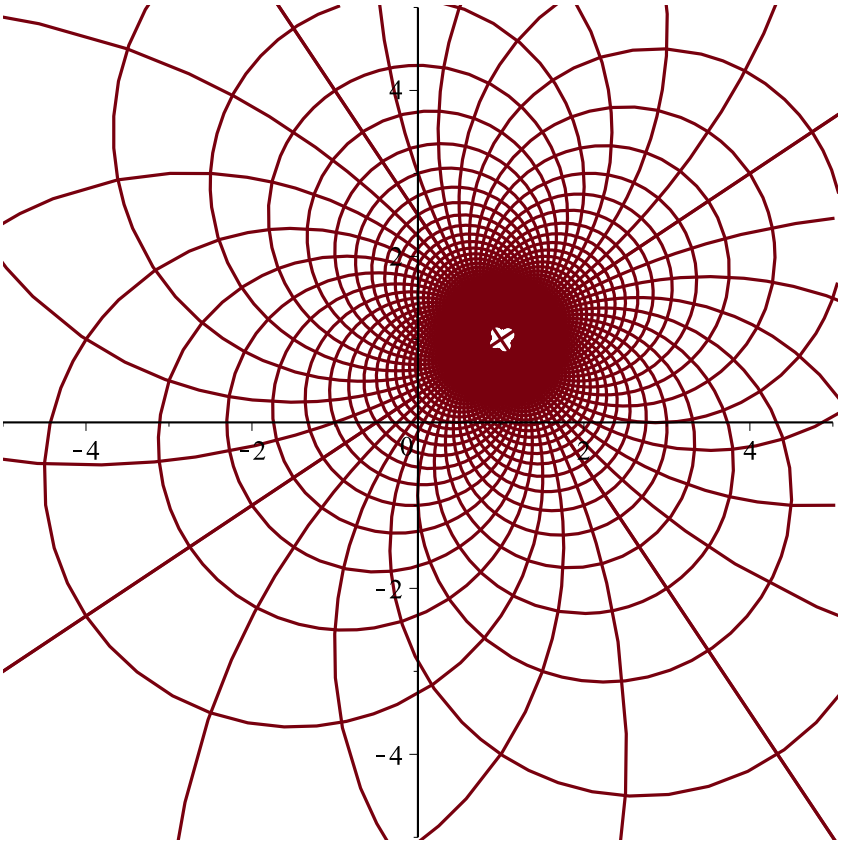
```
> with(plots):
> p:=[seq(plot([Re(l[n]),Im(l[n]),t=-100..100]),n=1..nops(l))]:
> display(p,scaling=constrained);
```




```
> f:=z->((I+1)*z+1)/(z-2);
```

$$f:=z\rightarrow\frac{(1+\mathrm{I})\,z+1}{z-2} \tag{2}$$

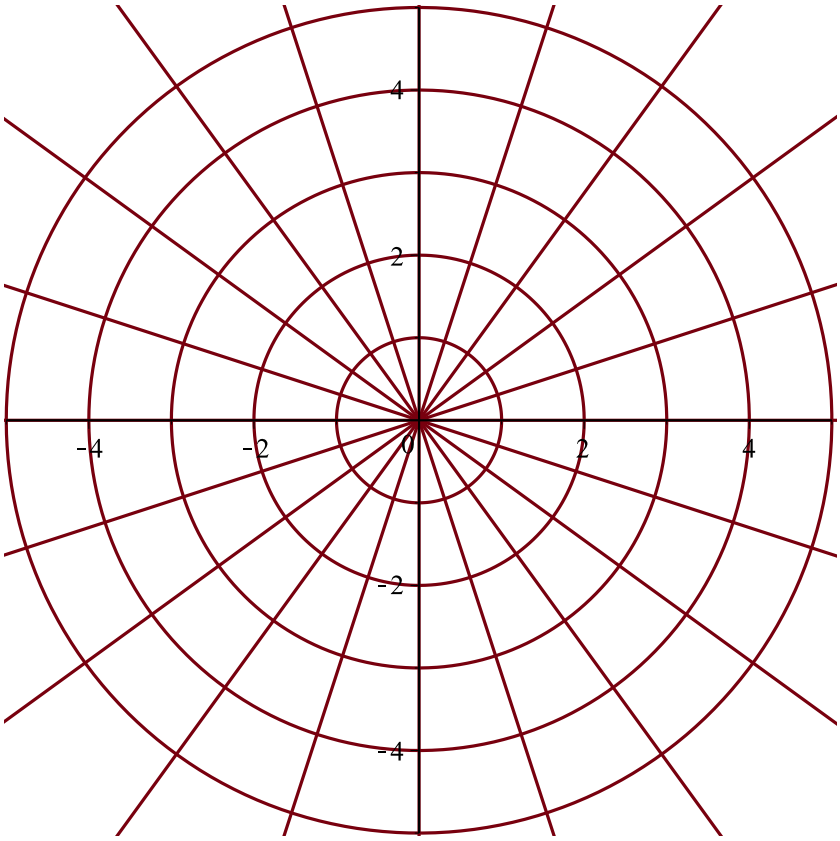
```
> p:=[seq(plot([Re(f(l[n])),Im(f(l[n])),t=-100..100]),n=1..nops(l))
  ]:
  display(p,scaling=constrained,view=[-5..5,-5..5]);
```



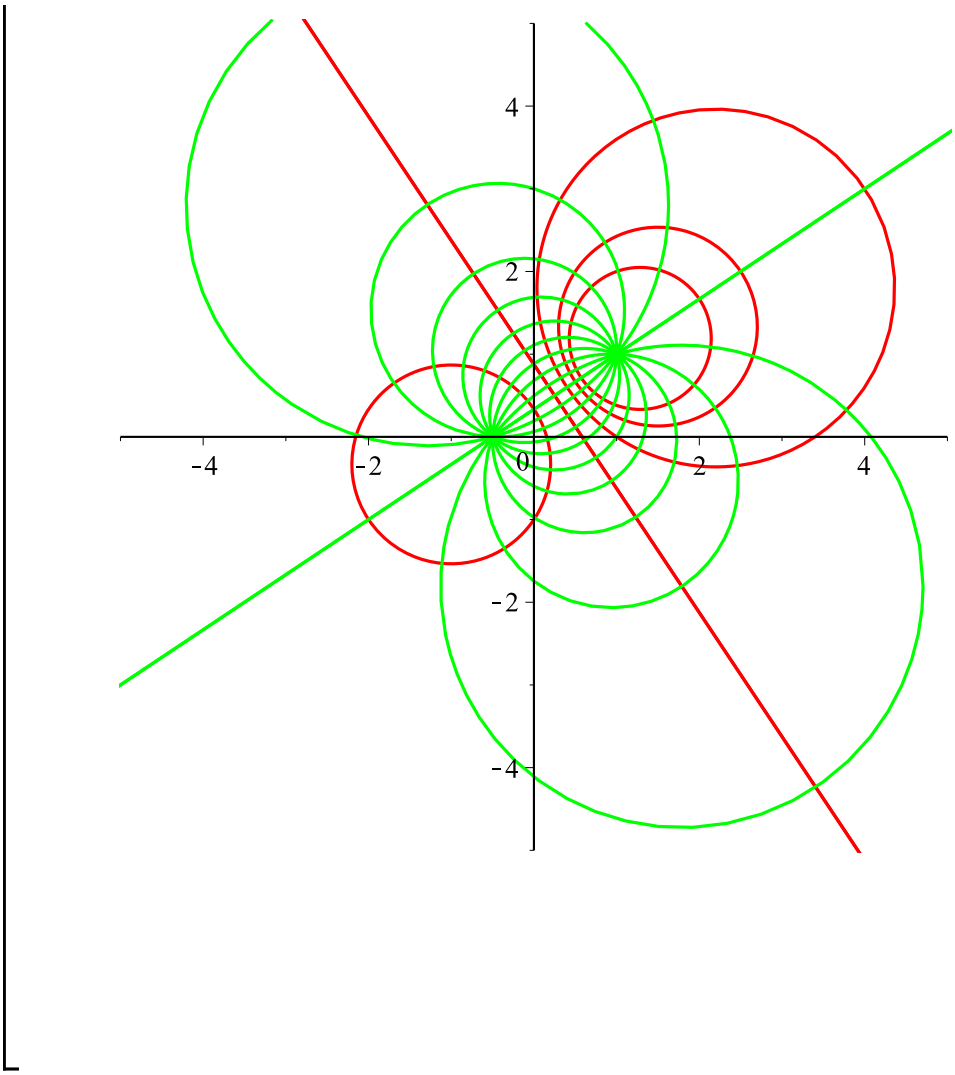

```
> c:=seq(n*exp(I*t),n=1..5),seq((t+Pi)*5*10*exp(I*2*Pi*n/20),n=1.
  .20);
```

$$c := e^{It}, 2\,e^{It}, 3\,e^{It}, 4\,e^{It}, 5\,e^{It}, 50\,(t+\pi)\,e^{\frac{1}{10}I\pi}, 50\,(t+\pi)\,e^{\frac{1}{5}I\pi}, 50\,(t+\pi)\,e^{\frac{3}{10}I\pi}, 50\,(t+\pi)\,e^{\frac{2}{5}I\pi}, 50\,I\,(t+\pi), 50\,(t+\pi)\,e^{\frac{3}{5}I\pi}, 50\,(t+\pi)\,e^{\frac{7}{10}I\pi}, 50\,(t+\pi)\,e^{\frac{4}{5}I\pi}, 50\,(t+\pi)\,e^{\frac{9}{10}I\pi}, -50\,t-50\,\pi, 50\,(t+\pi)\,e^{-\frac{9}{10}I\pi}, 50\,(t+\pi)\,e^{-\frac{4}{5}I\pi}, 50\,(t+\pi)\,e^{-\frac{7}{10}I\pi}, 50\,(t+\pi)\,e^{-\frac{3}{5}I\pi}, -50\,I\,(t+\pi), 50\,(t+\pi)\,e^{-\frac{2}{5}I\pi}, 50\,(t+\pi)\,e^{-\frac{3}{10}I\pi}, 50\,(t+\pi)\,e^{-\frac{1}{5}I\pi}, 50\,(t+\pi)\,e^{-\frac{1}{10}I\pi}, 50\,t+50\,\pi \quad (3)$$

```
> p:=[seq(plot([Re(c[n]),Im(c[n]),t=-Pi..Pi]),n=1..25)]:
  display(p,scaling=constrained,view=[-5..5,-5..5]);
```




```
> p:=seq(plot([Re(f(c[n])),Im(f(c[n])),t=-Pi..Pi],color=red),n=1.
  .5):
  r:=seq(plot([Re(f(c[n])),Im(f(c[n])),t=-Pi..Pi],color=green),n=6.
  .25):
  display([p,r],scaling=constrained,view=[-5..5,-5..5]);
```


4
2
-4
-2
0
2
4
-2
-4