```
> restart;
  with (PDEtools): with (linalg): with (LinearAlgebra): with (plots): alias
   (w=w(z),phi=phi(t),psi=psi(t)):
> alpha:=-3;beta:=-30;phi:=simplify(KummerU(alpha,beta,z)):phi:=
  subs (BETA=beta, simplify (LaguerreL(-alpha, BETA-1, z))):
                                \alpha := -3
                                \beta := -30
                                                                         (1)
> n := 2;
                                                                         (2)
> phi:for K from 1 to n do; l[K]:=diff(%,z)*z; od:wronskian([phi,seq
   (1[k],k=1..n-1)],z):for K from 1 to n do;h[K]:=Row(%,1);row(%%,2)
  ; wronskian (%*z,z):od:simplify(<seq(simplify(h[k]),k=1..n)>):tau:=
  det(%):op(1,sort(tau,z,descending)):coeffs(%):tau[n]:=factor(sort
   (expand(tau/(%))))*(z^{(n/2*(1-n))}:
> RootOf(tau[n],z):A:=evalf(allvalues(%)):
> complexplot([A],z=-65..15,y=-40..40,style=point,symbol=
  solidcircle,color=blue,symbolsize=25);
                                                  40
                                                  30
                                                  20
                                              y
                                                  10
        -60
                                            -10
                                                    0
                                                            10
                      -40
                                                 -10
                                                 -20
                                                 -30
  restart;
  with (PDEtools): with (linalg): with (LinearAlgebra): with (plots): alias
   (w=w(z), phi=phi(t), psi=psi(t)):
```

```
> alpha:=-5;phi:=simplify(KummerU(alpha,beta,z)):phi:=simplify
   (LaguerreL(-alpha,beta-1,z)):
                                \alpha := -5
                                                                         (3)
> n:=3;
                                 n := 3
                                                                         (4)
> phi:for K from 1 to n do; l[K]:=diff(%,z)*z; od:wronskian([phi,seq
  (1[k], k=1..n-1)], z): for K from 1 to n do; h[K]:=Row(%,1); row(%%,2)
  ; wronskian (%*z,z):od:simplify(<seq(simplify(h[k]),k=1..n)>):tau:=
  det(%):op(1,sort(tau,z,descending)):coeffs(%):tau[n]:=factor(sort
  (expand(tau/(%))))*(z^{(n/2*(1-n))}:
> RootOf(tau[n],z):A:=evalf(allvalues(%)):
> animate( complexplot, [[A],thickness=4,color=blue,symbolsize=25],
  beta=-10..10, style=point, symbol=solidcircle, frames=200);
                                \beta = -10.
                             6
                             4
                             2
            -10
                             0
                                       5
                                               10
                                                       15
                           -2
```