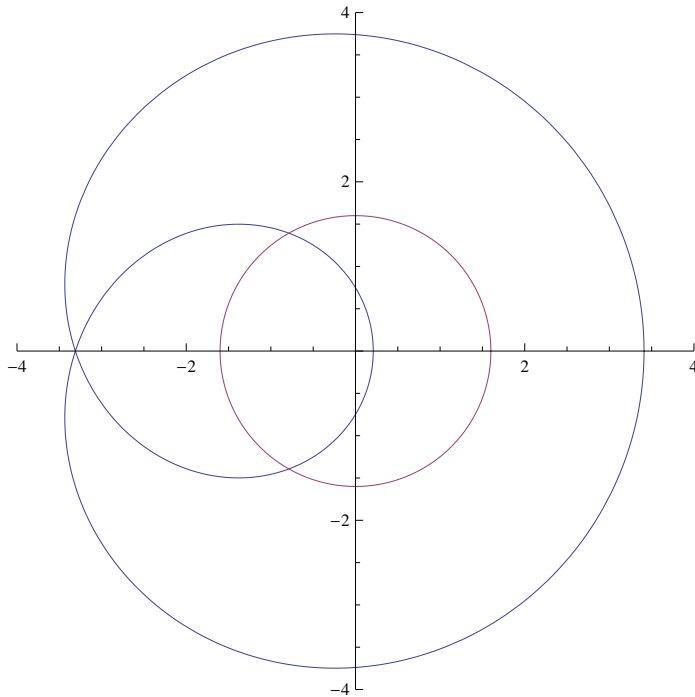


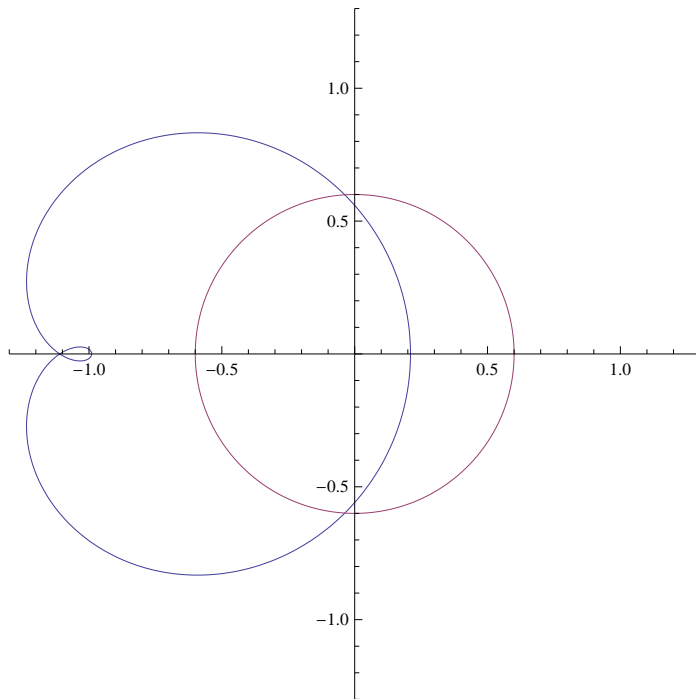
```

(* ----- *)
(*   wind      Winding number solution of  $z^2 + z - 3/4 = 0$       *)
(* ----- *)
(* Exact solutions are  $z = 1/2$  and  $z = -3/2$  *)
(* Graphs show  $p(z(t))$  and  $z(t)$  [RED] *)
wind[a_, b_] := ParametricPlot[{{a^2 Cos[2 t] + a Cos[t] - 3/4, a^2 Sin[2 t] + a Sin[t]},
  {a Cos[t], a Sin[t]}}, {t, 0, 2 Pi},
  PlotRange -> {{-b, b}, {-b, b}}]
(* w = 2 *)
wind[1.6, 4]

```



```
(* w = 1 *)  
wind[0.6, 1.3]
```



```
(* w = 0 *)  
wind[0.4, 1.2]
```

