In[14]:=
```
ClearAll["Global`*"]
Clear[minx, miny, maxx, maxy]
minx = -2;
miny = -2;
maxx = 2;
maxy = 2;
```

In[62]:=
```
Clear[sol, x, y, t]
sol[x0_, y0_] := NDSolve[
  {x'[t] == (0 + 1) * x[t] + 3 * y[t],
   y'[t] == -2 * x[t] + (0 - 1) * y[t],
   x[0] == x0, y[0] == y0},
  {x, y}, {t, -100, 10}]
```

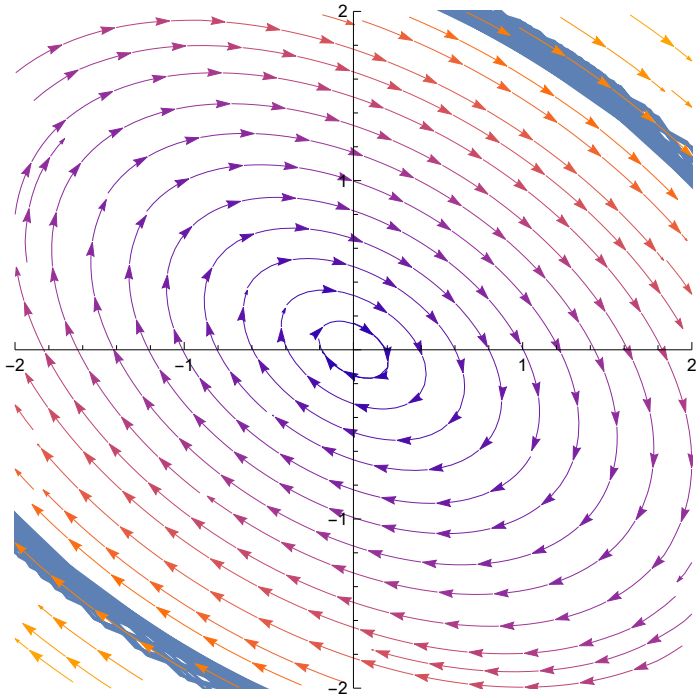
In[22]:=
```
initialCond = Join[
   Table[{x, maxy}, {x, minx , maxx, 0.1}],
   Table[{minx , y } , {y, miny , maxy, 0.1}],
   Table[{x , miny}, {x , minx , maxx, 0.1}],
   Table[{maxx, y} , {y, miny , maxy, 0.1}]
  ];
```

In[64]:=
```
Show[ParametricPlot[
  Evaluate[{x[t], y[t]} /. sol[initialCond[[50, 1]], initialCond[[50, 2]]]],
  {t, -1000, 10}, PlotRange → {{minx, maxx}, {miny, maxy}}],
 StreamPlot[{(0 + 1) * x + 3 * y, -2 * x + (0 - 1) * y}, {x, -2, 2}, {y, -2, 2}],
 ListPlot[{{0, 0}}, PlotStyle → {PointSize[0.03], Red},
  PlotMarkers → {"", Large}, PlotLegends → {"Sigma = 0"}]
]
```

InterpolatingFunction: Input value {-999.979} lies outside the range of data in the interpolating function. Extrapolation will be used.

InterpolatingFunction: Input value {-999.979} lies outside the range of data in the interpolating function. Extrapolation will be used.

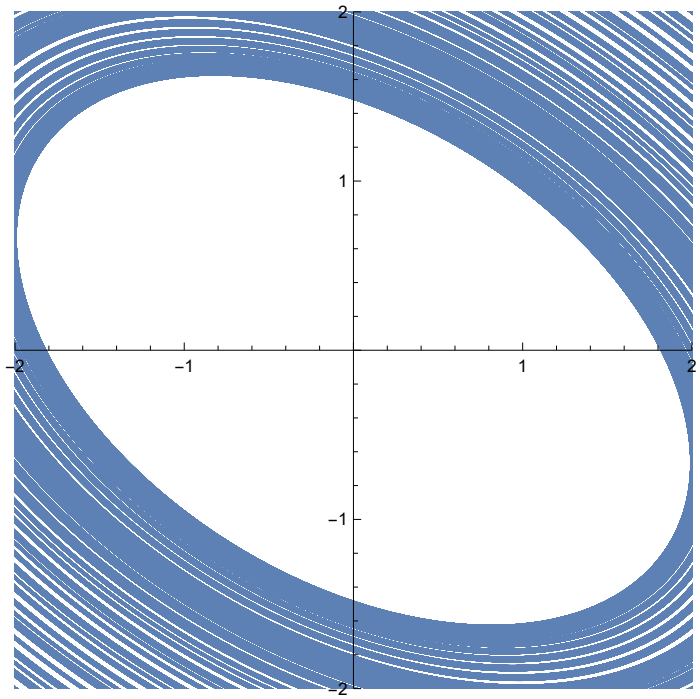
Out[64]=



Sigma = 0

In[65]:=
```
p2 = Show[
  Table[
   ParametricPlot[
    Evaluate[{x[t], y[t]} /. sol[initialCond[[i, 1]], initialCond[[i, 2
        ]]], {t, -100, 10}, PlotRange → {{minx, maxx}, {miny, maxy}}],
   {i, 1, Length[initialCond]}],
  ListPlot[{{0, 0}}, PlotStyle → {PointSize[0.03], Red},
   PlotMarkers → {"", Large}, PlotLegends → {"Sigma = 0"}]
 ]
```

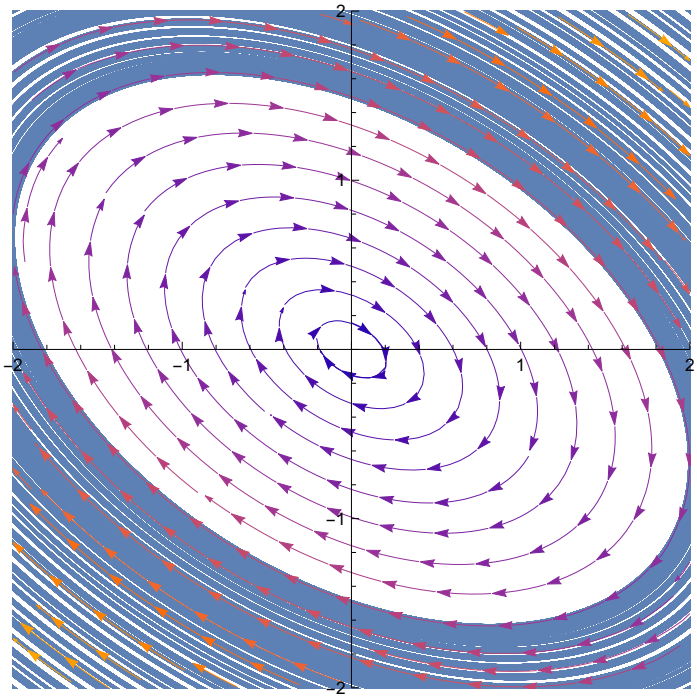
Out[65]=



Sigma = 0

In[66]:=
```
Show[p2, StreamPlot[{(0 + 1) * x + 3 * y, -2 * x + (0 - 1) * y}, {x, -2, 2}, {y, -2, 2}],
 PlotRange → {{minx, maxx}, {miny, maxy}}]
```

Out[66]=



Sigma = 0