```
miny = -1;
maxy = 1;
xrangelength = maxy - miny;

step = 0.2;

sigma = 1;

x0 = 0;
minx = x0 - xrangelength / 2;
maxx = x0 + xrangelength / 2;


sol[u_, v_] := NDSolve[
   {x'[t] == y[t], y'[t] == -Sin[x[t]] - sigma * y[t], x[0] == u, y[0] == v}, {x, y}, {t, 10}]

Table1 = Table[{minx, y}, {y, miny, maxy, step}];
Table2 = Table[{x, maxy}, {x, minx, maxx, step}];
Table3 = Table[{maxx, y}, {y, miny, maxy, step}];
Table4 = Table[{x, miny}, {x, minx, maxx, step}];

TableFinal = Join[Table1, Table2, Table3, Table4];


Show[Table[ParametricPlot[
    Evaluate[{x[t], y[t]} /. sol[TableFinal[[i, 1]], TableFinal[[i, 2]]]],
    {t, 0, 10}, PlotRange → {{minx, maxx}, {miny, maxy}},
    PlotLabel → Style["Trajectories around x = 0", FontSize → 15]] /.
   Line[x_] :→ {Arrowheads[{0., 0.01, 0.}], Arrow[x]}, {i, Length[TableFinal]}]]
```
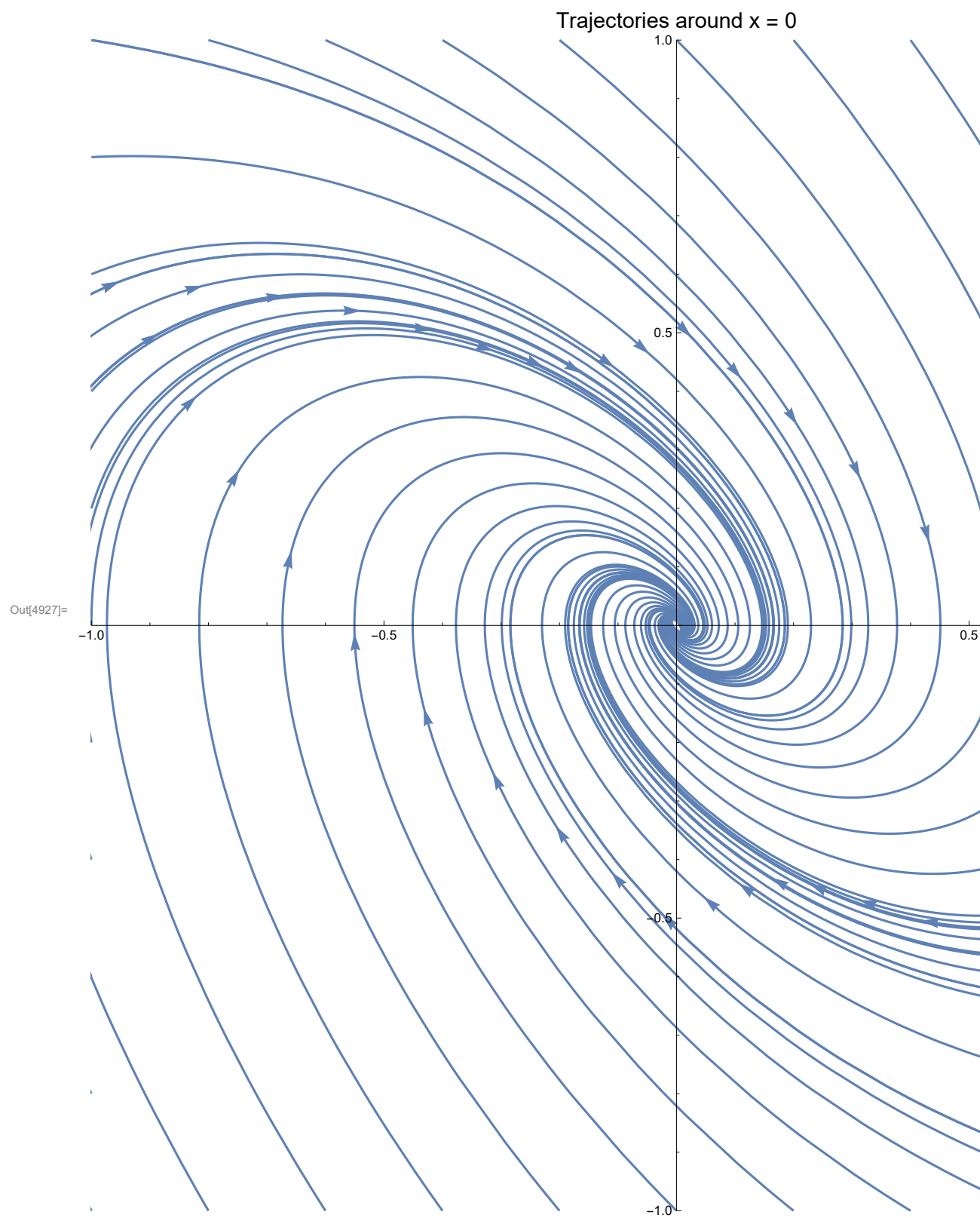
Trajectories around x = 0

Out[4927]=

```
In[4928]:= x0 = Pi;
minx = x0 - xrangelength / 2;
maxx = x0 + xrangelength / 2;


sol[u_, v_] := NDSolve[
   {x'[t] == y[t], y'[t] == -Sin[x[t]] - sigma * y[t], x[0] == u, y[0] == v}, {x, y}, {t, 10}]

Table1 = Table[{minx, y}, {y, miny, maxy, step}];
Table2 = Table[{x, maxy}, {x, minx, maxx, step}];
Table3 = Table[{maxx, y}, {y, miny, maxy, step}];
Table4 = Table[{x, miny}, {x, minx, maxx, step}];

TableFinal = Join[Table1, Table2, Table3, Table4];


Show[Table[ParametricPlot[
    Evaluate[{x[t], y[t]} /. sol[TableFinal[[i, 1]], TableFinal[[i, 2]]]],
    {t, 0, 10}, PlotRange → {{minx, maxx}, {miny, maxy}},
    PlotLabel → Style["Trajectories around x = pi", FontSize → 15]] /.
   Line[x_] ⧴ {Arrowheads[{0., 0.01, 0., 0., 0.}], Arrow[x]},
  {i, Length[TableFinal]}]]
```

Trajectories around x = pi

Out[4937]=