```
In[*]:= Clear["Global`*"]
     minx = -\pi - 0.5; maxx = \pi + 0.5; miny = -2.5; maxy = 2.5; \sigma = 0;
     sol[x0_, y0_] := NDSolve[{x'[t] == y[t],}
        y'[t] = -Sin[x[t]] - \sigma * y[t], x[0] = x0, y[0] = y0, \{x, y\}, \{t, 0, 10\}]
     initialCondition = Join[Table[{0, y}, {y, miny, maxy, 0.1}],
        Table[\{minx, y\}, \{y, miny, maxy, 0.1\}], Table[\{maxx, y\}, \{y, miny, maxy, 0.1\}],
        Table[\{x, miny\}, \{x, minx, maxx, 0.1\}], Table[\{x, maxy\}, \{x, minx, maxx, 0.1\}]];
     Show[Table[ParametricPlot[Evaluate[{x[t], y[t]} /.
            sol[initialCondition[i, 1], initialCondition[i, 2]]], {t, 0, 10},
         PlotRange → {{minx, maxx}, {miny, maxy}}], {i, Length[initialCondition]}] /.
       Line[x] \Rightarrow {Arrowheads[{0., 0.05, 0.05, 0.}], Arrow[x]}]
In[\ \circ\ ]:=\ \sigma=0.5;
     sol[x0_, y0_] := NDSolve[{x'[t] == y[t],}
        y'[t] = -Sin[x[t]] - \sigma * y[t], x[0] = x0, y[0] = y0, \{x, y\}, \{t, 0, 10\}]
     initialCondition = Join[Table[{0, y}, {y, miny, maxy, 0.5}],
        Table[{minx, y}, {y, miny, maxy, 0.5}], Table[{maxx, y}, {y, miny, maxy, 0.5}],
        Table[{x, miny}, {x, minx, maxx, 0.5}], Table[{x, maxy}, {x, minx, maxx, 0.5}]];
     Show[Table[ParametricPlot[Evaluate[{x[t], y[t]} /.
            sol[initialCondition[i, 1], initialCondition[i, 2]]], {t, 0, 10},
         PlotRange → {{minx, maxx}, {miny, maxy}}], {i, Length[initialCondition]}] /.
       Line[x_{\_}] \Rightarrow \{Arrowheads[\{0., 0.05, 0.\}], Arrow[x]\}]
```

```
ln[\circ] = \sigma = 1;
     sol[x0_, y0_] := NDSolve[\{x'[t] == y[t],
        y'[t] = -Sin[x[t]] - \sigma * y[t], x[0] = x0, y[0] = y0\}, \{x, y\}, \{t, 0, 10\}]
     initialCondition = Join[Table[{0, y}, {y, miny, maxy, 0.5}],
        Table[{minx, y}, {y, miny, maxy, 0.5}], Table[{maxx, y}, {y, miny, maxy, 0.5}],
        Table[{x, miny}, {x, minx, maxx, 0.5}], Table[{x, maxy}, {x, minx, maxx, 0.5}]];
     Show[Table[ParametricPlot[Evaluate[{x[t], y[t]} /.
            sol[initialCondition[i, 1], initialCondition[i, 2]]], {t, 0, 10},
         PlotRange → {{minx, maxx}, {miny, maxy}}], {i, Length[initialCondition]}] /.
       Line [x_] \Rightarrow \{Arrowheads [\{0., 0.05, 0.\}], Arrow [x]\}]
In[\bullet] := \sigma = 3;
     sol[x0_, y0_] := NDSolve[{x'[t] == y[t],}
        y'[t] = -Sin[x[t]] - \sigma * y[t], x[0] = x0, y[0] = y0\}, \{x, y\}, \{t, 0, 10\}]
     initialCondition = Join[Table[{0, y}, {y, miny, maxy, 0.5}],
        Table[{minx, y}, {y, miny, maxy, 0.5}], Table[{maxx, y}, {y, miny, maxy, 0.5}],
        Table[{x, miny}, {x, minx, maxx, 0.5}], Table[{x, maxy}, {x, minx, maxx, 0.5}]];
     Show[Table[ParametricPlot[Evaluate[{x[t], y[t]} /.
            sol[initialCondition[i, 1], initialCondition[i, 2]]], {t, 0, 10},
         PlotRange → {{minx, maxx}, {miny, maxy}}], {i, Length[initialCondition]}] /.
       Line[x] \Rightarrow {Arrowheads[{0., 0.05, 0.}], Arrow[x]}]
```

```
sol[x0_, y0_] := NDSolve[{x'[t] == y[t],
 y'[t] == -Sin[x[t]] - σ * y[t], x[0] == x0, y[0] == y0}, {x, y}, {t, 0, 10}]
initialCondition = Join[Table[{0, y}, {y, miny, maxy, 0.5}],
 Table[{minx, y}, {y, miny, maxy, 0.5}], Table[{maxx, y}, {y, miny, maxy, 0.5}],
 Table[{x, miny}, {x, minx, maxx, 0.5}], Table[{x, maxy}, {x, minx, maxx, 0.5}]];
 Show[Table[ParametricPlot[Evaluate[{x[t], y[t]} /.
 sol[initialCondition[i, 1], initialCondition[i, 2]]]], {t, 0, 10},
 PlotRange → {{minx, maxx}, {miny, maxy}}], {i, Length[initialCondition]}] /.
 Line[x_] → {Arrowheads[{0., 0.05, 0.}], Arrow[x]}]
```