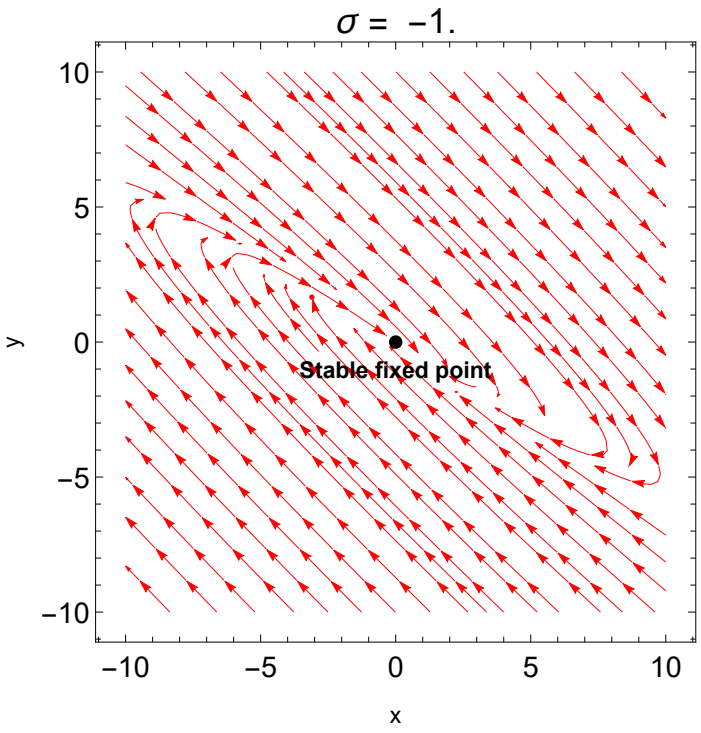
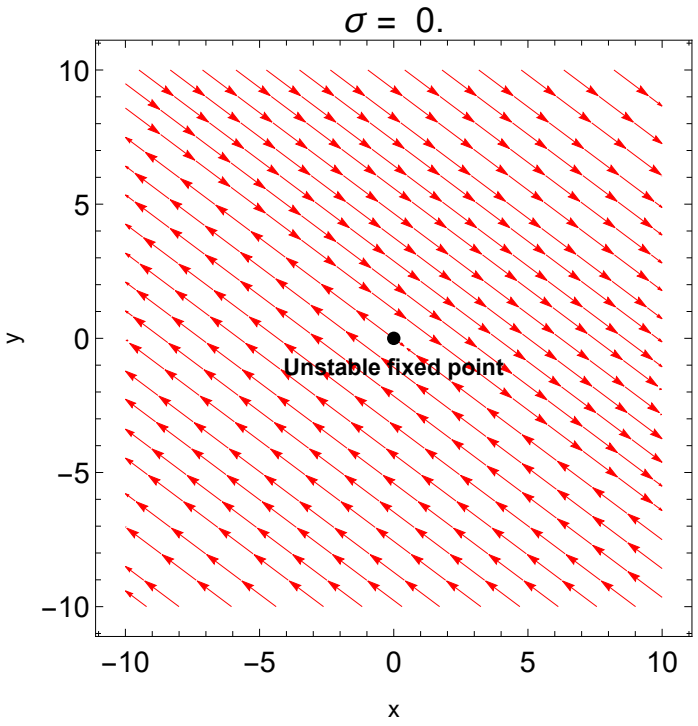
In[591]:=
```
sigma0 = -1;
StreamPlot[
 {(sigma + 3) * x + 4 y, -9 / 4 x + (sigma - 3) y} /. {sigma → sigma0},
 {x, -10, 10},
 {y, -10, 10},
 StreamStyle → {Red},
 PlotLabel → StringJoin["σ =  ", ToString[N[sigma0]]],
 FrameLabel → {Style["x", Black, Medium], Style["y", Black, Medium]},
 Epilog → {{PointSize[Large], Point[{0, 0}]},
   Text[Style["Stable fixed point", Medium, Bold], {0, -1}]},
 LabelStyle → Directive[FontSize → 15]
]

sigma0 = 0;
StreamPlot[
 {(sigma + 3) * x + 4 y, -9 / 4 x + (sigma - 3) y} /. {sigma → sigma0},
 {x, -10, 10},
 {y, -10, 10},
 StreamStyle → {Red},
 PlotLabel → StringJoin["σ =  ", ToString[N[sigma0]]],
 FrameLabel → {Style["x", Black, Medium], Style["y", Black, Medium]},
 Epilog → {{PointSize[Large], Point[{0, 0}]},
   Text[Style["Unstable fixed point", Medium, Bold], {0, -1}]},
 LabelStyle → Directive[FontSize → 15]
]

sigma0 = 1;
StreamPlot[
 {(sigma + 3) * x + 4 y, -9 / 4 x + (sigma - 3) y} /. {sigma → sigma0},
 {x, -10, 10},
 {y, -10, 10},
 StreamStyle → {Red},
 PlotLabel → StringJoin["σ =  ", ToString[N[sigma0]]],
 FrameLabel → {Style["x", Black, Medium], Style["y", Black, Medium]},
 Epilog → {{PointSize[Large], Point[{0, 0}]},
   Text[Style["Unstable fixed point", Medium, Bold], {0, -1}]},
 LabelStyle → Directive[FontSize → 15]
]
```

Out[592]=



Out[594]=



Out[596]=