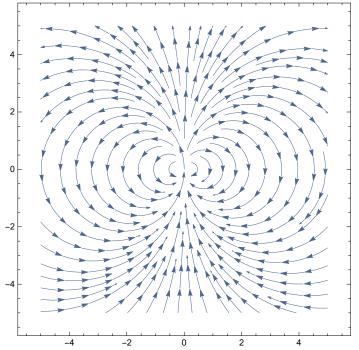
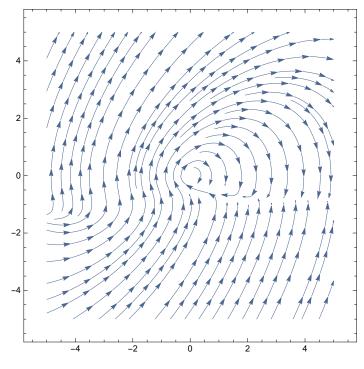
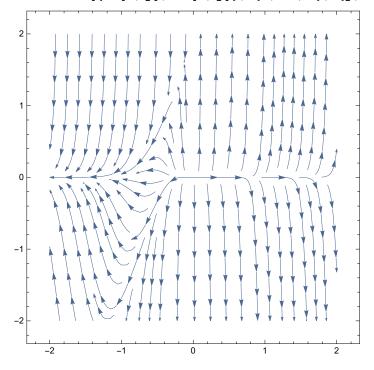
```
\begin{split} &\text{f1}[\mathbf{x}_-,\,\mathbf{y}_-] := 2 * \mathbf{x} * \mathbf{y} \\ &\text{g1}[\mathbf{x}_-,\,\mathbf{y}_-] := \mathbf{y}^2 - \mathbf{x}^2 \\ &\text{StreamPlot}[\{\text{f1}[\mathbf{x},\,\mathbf{y}]\,,\,\,\text{g1}[\mathbf{x},\,\mathbf{y}]\}\,,\,\,\{\mathbf{x}_+,\,-5,\,5\}\,,\,\,\{\mathbf{y}_+,\,-5,\,5\}] \end{split}
```



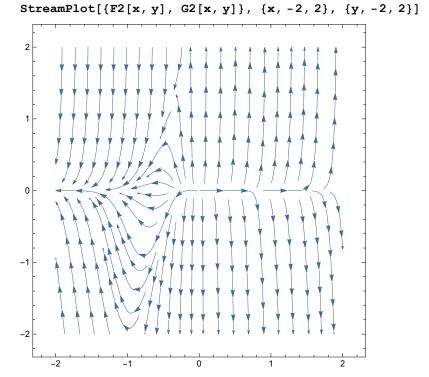
$$\begin{split} & \text{f2}[x_-, y_-] := y + y^2 \\ & \text{g2}[x_-, y_-] := -x + 1 \big/ 5 * y - x * y + 6 \big/ 5 * y^2 \\ & \text{StreamPlot}[\{\text{f2}[x, y], \ g2[x, y]\}, \ \{x, -5, 5\}, \ \{y, -5, 5\}] \end{split}$$



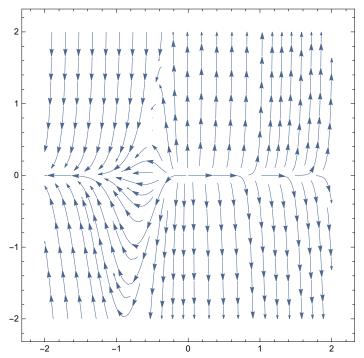
 $F1[x_{-}, y_{-}] := 0.3 x - 0.1 x * y$ $G1[x_{-}, y_{-}] := 3y * (1 - y / 2) + 5 * * y$ ${\tt StreamPlot[\{F1[x,y],\ G1[x,y]\},\ \{x,-2,2\},\ \{y,-2,2\}]}$



 $F2[x_{y}] := 0.3 x - 0.1 x * y$ $G2[x_{-}, y_{-}] := 3y * (1 - y / 3) + 5 * * y$



$$\begin{split} & F3[x_-, y_-] := 0.3 \, x - 0.1 \, x * y \\ & G3[x_-, y_-] := 3 \, y * \left(1 - y \, / \, 4\right) + 5 \, x * y \\ & StreamPlot[\{F3[x, y], G3[x, y]\}, \, \{x, -2, 2\}, \, \{y, -2, 2\}] \end{split}$$



NSolve::ifun: Inverse functions are being used by NSolve,

so some solutions may not be found; use Reduce for complete solution information. \gg

$$\{\{x \rightarrow 3.54176\}, \{x \rightarrow 19.9758\}\}$$