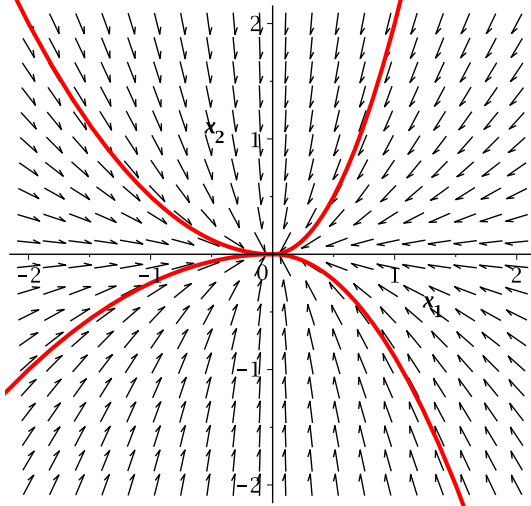


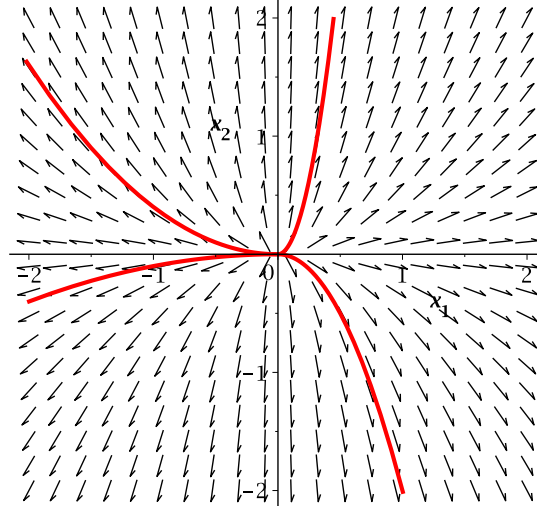
Nichtlineare Regelungssysteme 1 — Übung 2 / A4

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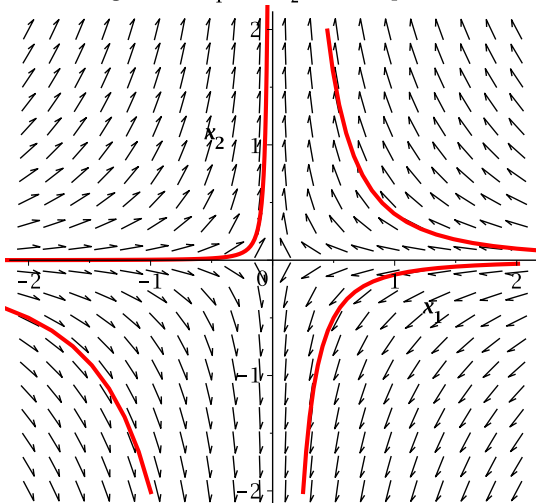
Eigenwerte: $\lambda_1 = -1, \lambda_2 = -2$ (stabiler Knotenpunkt)



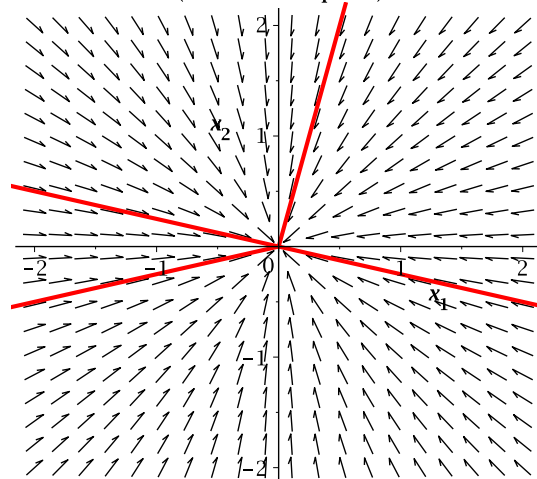
Eigenwerte: $\lambda_1 = 1, \lambda_2 = 2$ (instabiler Knotenpunkt)



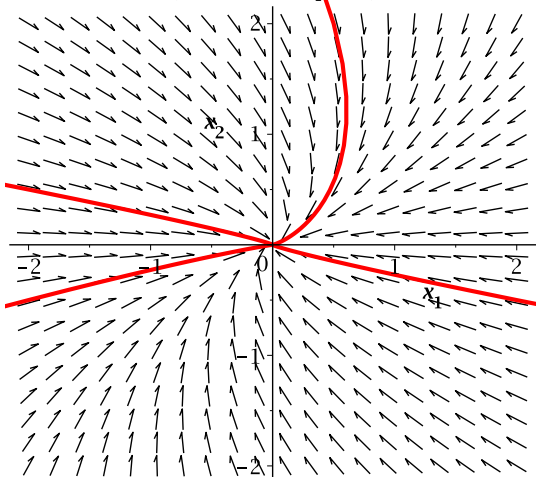
Eigenwerte: $\lambda_1 = -1, \lambda_2 = 2$ (Sattelpunkt)



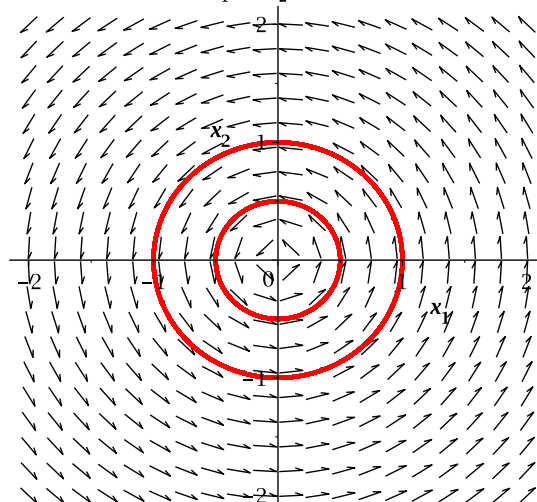
Eigenwerte, diagonalisierbarer Fall: $\lambda_1 = -1, \lambda_2 = -1$ (stabiler Knotenpunkt)



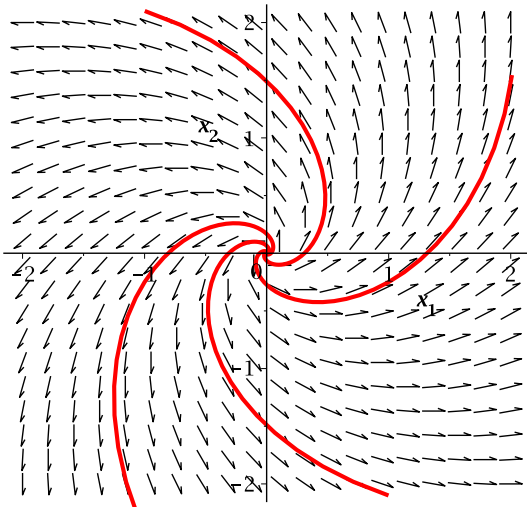
Eigenwerte, nicht diagonalisierbarer Fall: $\lambda_1 = -2, \lambda_2 = -2$ (stabiler Knotenpunkt)



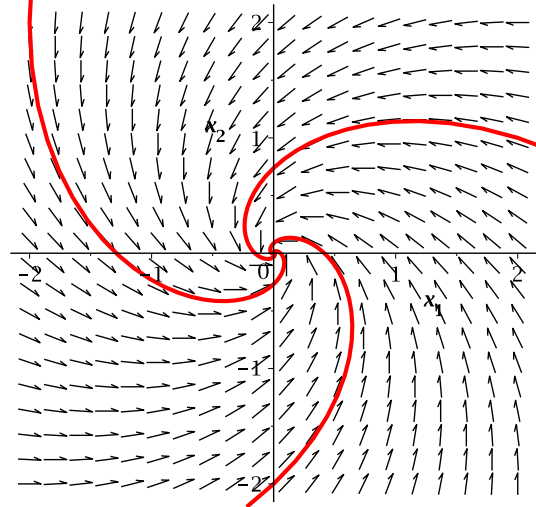
Eigenwerte: $\lambda_1 = j, \lambda_2 = -j$ (Wirbelpunkt)



Eigenwerte: $\lambda_1 = 1 + j, \lambda_2 = 1 - j$ (instabiler Strudelpunkt)



Eigenwerte: $\lambda_1 = -1 + j, \lambda_2 = -1 - j$ (stabiler Strudelpunkt)



Eigenwerte, nicht diagonalisierbarer Fall: $\lambda_1 = 0, \lambda_2 = 0$
(instabiles System)

