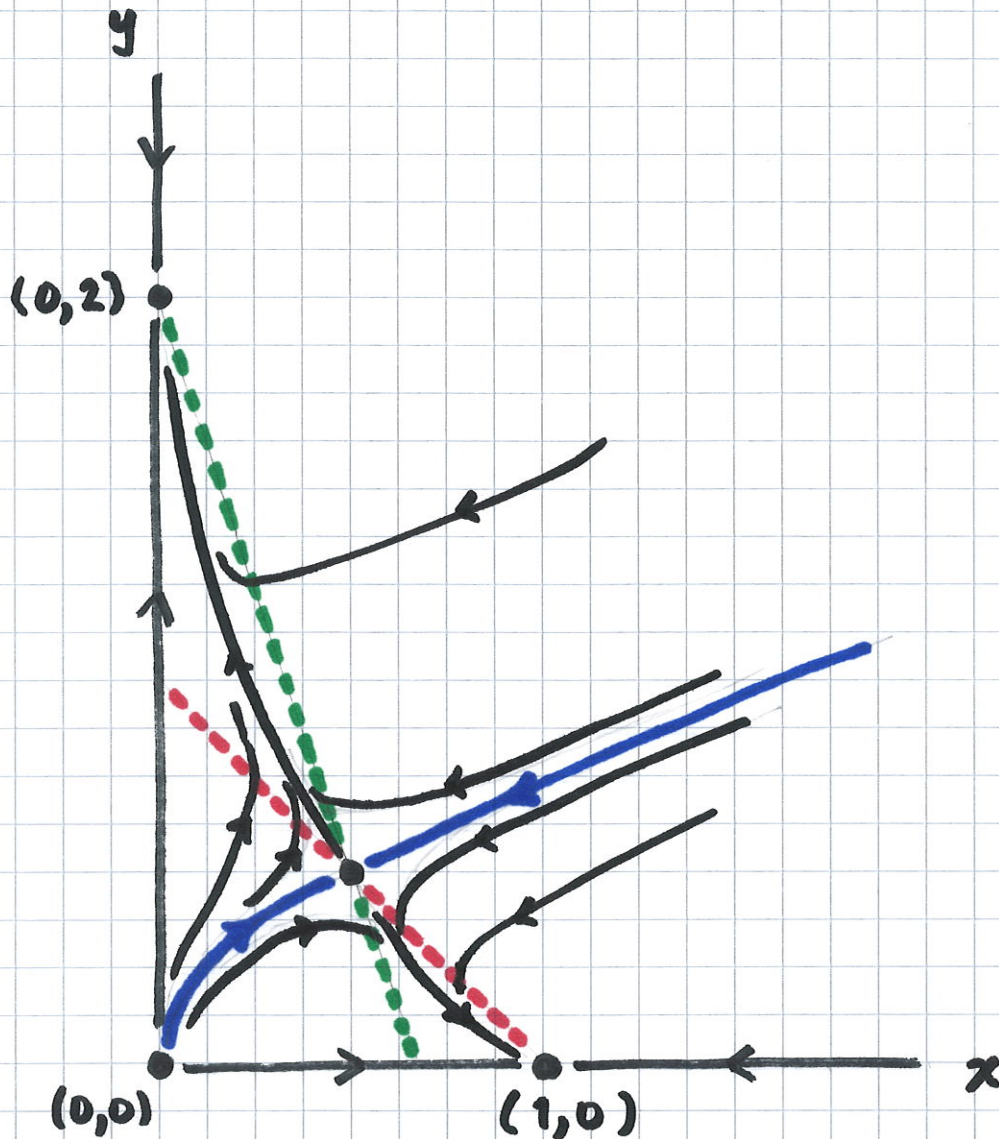


Finally, the phase portrait (incorporating all above work, and local phase portraits near each critical point consistent with classification of behaviour & nullclines)



- For this model, only $x, y \geq 0$ are relevant
- Two separatrices of the saddle (special trajectories shown in blue) separate behaviour of $(x(t), y(t))$ as $t \rightarrow \infty$