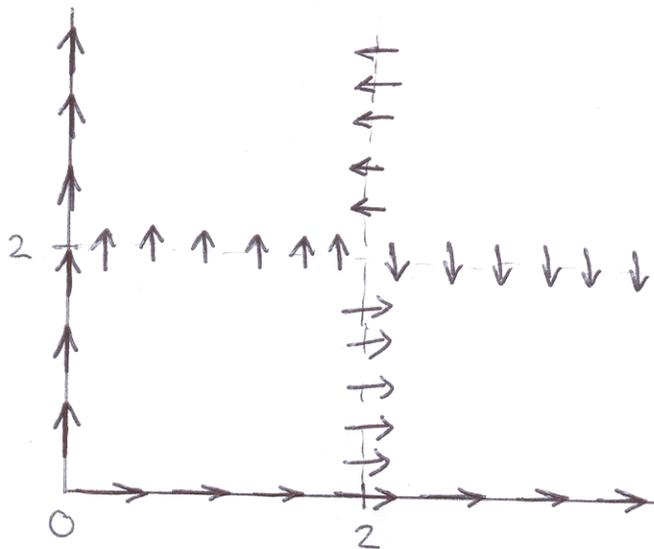13   Corrected phase portrait

Nullclines $x = 0$ $x = 2$
             $y = 0$ $y = 2$

Tangents:

Trajectories