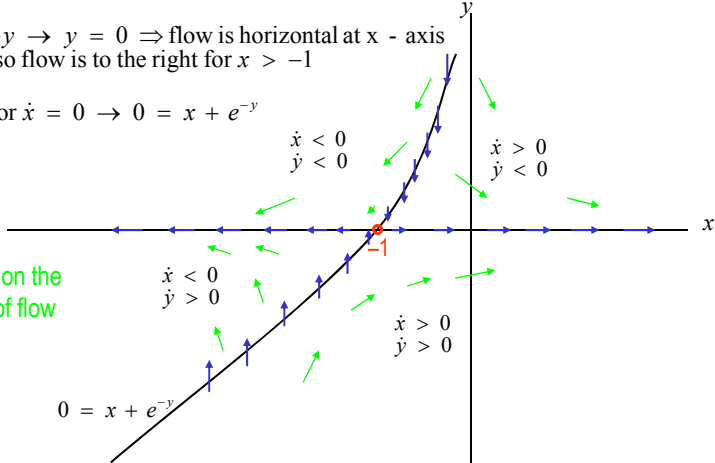


$\dot{y} = 0$  for  $0 = -y \rightarrow y = 0 \Rightarrow$  flow is horizontal at  $x$  - axis  
 $\dot{x} = x + 1$  here, so flow is to the right for  $x > -1$

Flow is vertical for  $\dot{x} = 0 \rightarrow 0 = x + e^{-y}$



The nullclines partition the space into classes of flow direction:

$$\dot{x}, \dot{y} \begin{cases} < \\ > \end{cases} 0$$