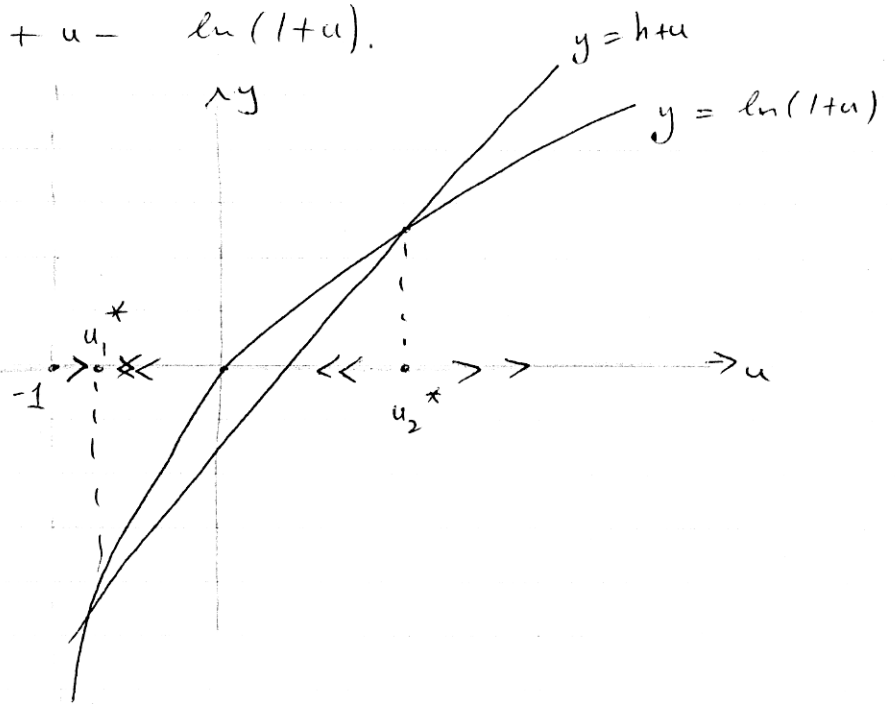


10 a) $u' = h + u - \ln(1+u)$.

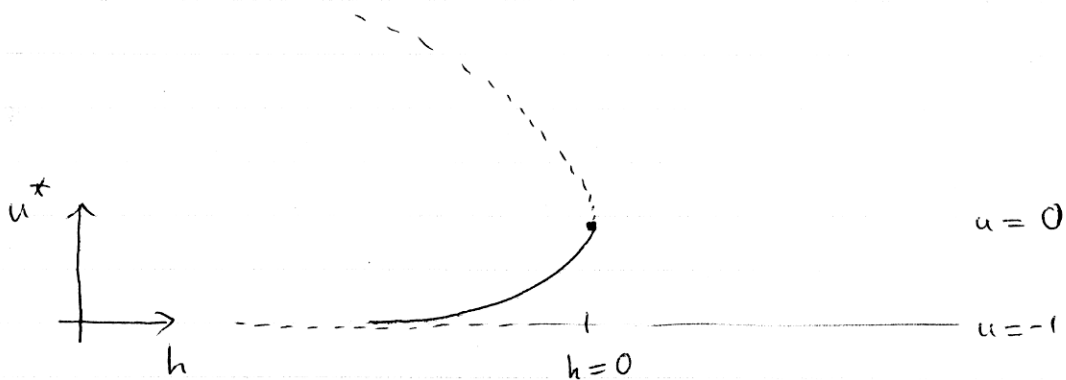


For $h < 0$, two critical points $-1 < u_1^* < 0$, $u_2^* > 0$.

For $h > 0$, no critical points.

u_1^* STABLE

u_2^* UNSTABLE



SADDLE-NODE BIFURCATION.