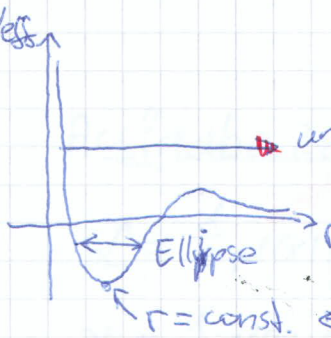
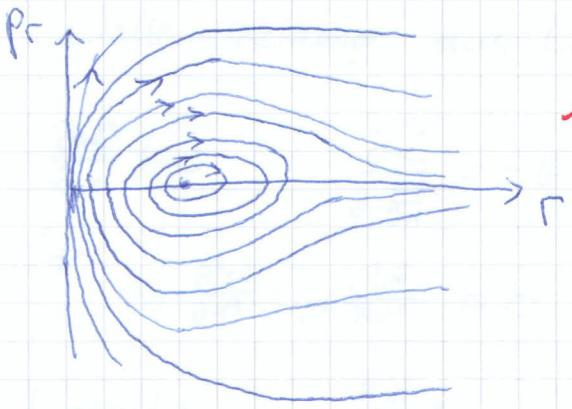


$r = \text{const.} \Leftrightarrow$ Kreisbahn $\Leftrightarrow L$ ~~minimal~~ maximal. , warum?

d) $\frac{\partial H}{\partial r} = -\dot{p}_r = -\frac{L^2}{mr^3} + \frac{2a^2 V_0}{e^{a^2 r^2}} \Rightarrow \dot{p}_r = \frac{L^2}{mr^3} - \frac{2a^2 V_0}{e^{a^2 r^2}}$

$\frac{\partial H}{\partial p_r} = \dot{r} = \frac{p_r}{m}$

$\Rightarrow \begin{pmatrix} \dot{r} \\ \dot{p}_r \end{pmatrix} = \begin{pmatrix} p_r/m \\ \frac{L^2}{mr^3} - \frac{2a^2 V_0}{e^{a^2 r^2}} \end{pmatrix}$



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