Recycling

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Q. Solve for $\gamma : \mathbb{R}_t \to \mathbb{R}^2_{s,p}$:

$$\frac{\partial \gamma}{\partial t} = \begin{pmatrix} 2\gamma_p(t) \\ \gamma_p(t)\gamma_s(t) \end{pmatrix}$$

I.e., integrate the V.F.

$$\begin{pmatrix} s \\ p \end{pmatrix} \longmapsto \begin{pmatrix} 2p \\ sp \end{pmatrix}$$

Irrelevant — e^{tad_c} is a flow on $Fun(s,p)$, not on $\mathbb{R}^2_{s,p}$.