Problem 4

Using Einstein notation:

$$4^{i} = \frac{\chi_{0,n}^{i} p^{n}}{1 + \chi_{i,m}^{i} q^{m}}$$

$$4^{i}(1+\chi_{i,m}^{i}q^{m})=\chi_{o,m}^{i}P^{n}$$

$$y' = \chi_{0,n} p^n - y' \chi_{1,m} q^m$$

Define 
$$X'_{i} = \begin{cases} \chi_{0,n} & \text{if } i \leq \max(n) \\ -\chi_{i,m}^{i} & \text{else.} \end{cases}$$

$$y^{i} = \chi^{i}, \tilde{p}^{i}$$

$$= D \left| \tilde{p}^{5} = (\chi^{-1})^{i}, y^{i} \right|$$

< (Basically r-stack