Complex the following:

$$\phi = \min_{n \in \mathcal{N}} \left\{ c^{n} \times + \max_{p \in \mathcal{P}} \left\{ f^{n}(n, \tilde{\omega}) \right\} \right\} = f(n)$$

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$$\phi = \min_{n \in \mathcal{N}} \left\{ f^{n}(n) \right\} = c^{n} \times + \max_{p \in \mathcal{P}} \left\{ f^{n}(n, \tilde{\omega}) \right\} \right\} = f(n)$$

$$\phi = \max_{p \in \mathcal{P}} \left\{ f^{n}(n, \tilde{\omega}) \right\} = f(n)$$

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In the above, the first equality follows from equivalence between unitary and continuous convergence.

Suppose his a solution of Mk, k=1,... and his the accumulation point of {ak}. f(2) = lim ft(2k) (Continuous convérgence) = Jim inf fk(nk) Looking only at a subsequence K < lim inf flock)  $\begin{cases} f^{k}(x^{k}) = \phi^{k} \end{cases}$ Jim inf ph ) Tourial inequality < lim sup of 2 20%] is a bounded sequence in R = lim sup pk therefore the subsequence convolves and converges to the exiginal requence's limit point. Since of is the opinional value of a minimization brobbens. We have  $\hat{x} \in again f(x)$ .

This leads us to conclude the following.

Theorem: If not is a sidulion to Mk, and if no is the accumulation point of links then no is a solution to M.