$$A_{\kappa}=b \Rightarrow MX^{(\kappa)}=C^{(\kappa-1)}$$
 ya  $\kappa>1$ 

. Trx: M ≈ 10

Express Northw Tivera 
$$A \in \mathbb{R}^{n \times n}$$
 $\det (A - \lambda I) = 0 \iff \text{Express prime constraints}$ 
 $\frac{\partial \cot (A - \lambda I)}{\partial x} = 0 \iff \text{Express prime constraints}$ 
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 $\frac{\partial \cot (A - \lambda I)}{\partial x} = 0 \iff \text{Ex$ 

$$V^{(k)} = \frac{A^{V(k-2)}}{||A^{V(k-2)}||} = \frac{A^{V(k-2)}}{||A^{V(k-2)}||} = \frac{A^{V(k-2)}}{||A^{V(k-2)}||} = \frac{A^{V(k-2)}}{||A^{V(k-2)}||}$$

$$M \omega_{0} \delta_{0} s \text{ Thu Sweething.}$$

$$V^{(k)} = \frac{(V^{(k)})^{T} A^{V(k)}}{||A^{V(k-2)}||} = \frac{A^{V(k-2)}}{||A^{V(k-2)}||}$$

Demputus Eorn AERXXM TW IN1/2/2/2/3/3/2 2/2/1

$$k_{01} V^{(0)} T_{W} (V^{(0)})^{T} V_{1} = (V^{(0)}, V_{1}) \neq 0$$

$$V^{(ic)} \rightarrow V_i \quad lose$$

$$V^{(k)} \longrightarrow V_{l} \quad \text{lost}$$

Andress. Y'L TW TEPITEWON TOU O A Sival Superstolingens.



$$V = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \in \mathbb{R}^{M \times M}$$

$$A = V \wedge V^{-1}$$

$$T \times V_{1} = \begin{bmatrix} 1 & 1 \\ 0 \end{bmatrix} \quad V_{2} = \begin{bmatrix} 1 & 1 \\ 0 \end{bmatrix} \quad V_{3} = \begin{bmatrix} 1 & 1 \\ 0 \end{bmatrix} \quad V_{4} = \begin{bmatrix} 1 & 1 \\ 0 \end{bmatrix} \quad V_{5} =$$

11/1/2

N = diag ( \land , \land 2, ..., \land \land \text{R"}

$$V^{(k)} = \frac{A^{k} V^{(0)}}{A^{k} V^{(0)}} = \frac{A^{k} \sum_{i=1}^{n} \beta_{i} V_{i}}{\|A^{k} \sum_{i=1}^{n} \beta_{i} V_{i}\|} = \frac{\sum_{i=1}^{n} \beta_{i} A^{k} V_{i}}{\|\sum_{i=1}^{n} \beta_{i} A^{k} V_{i}\|_{2}} = \frac{A^{2} V_{i}}{A^{2} V_{i}} =$$

$$Av_{1} = \lambda_{1}v_{1} \implies A^{2}v_{1} = \lambda_{1}Av_{1} = \lambda_{1}^{2}v_{1} \implies A^{k}v_{1} = \lambda_{1}^{k}v_{1}$$

$$S(A^{k}) = \sum_{i=1}^{n} \beta_{i}\lambda_{i}^{k}v_{i}$$

$$\beta_{1}\lambda_{1}^{k}\sum_{i=1}^{n} \frac{\beta_{2}}{\beta_{1}}\left(\frac{\lambda_{1}}{\lambda_{1}}\right)^{k}v_{1}$$

$$= \sqrt{V_{1} + \sum_{i=2}^{n} \beta_{1}}\left(\frac{\lambda_{1}}{\lambda_{1}}\right)^{k}v_{1}$$

 $1 + \sum_{i=2}^{M} \frac{\beta_{i}}{\beta_{i}} \left(\frac{\lambda_{i}}{\lambda_{i}}\right)^{k} \sqrt{1}$  $\|\sum_{i=1}^{\infty} \beta_{i} \lambda_{i}^{k} \chi_{i}\|_{2} \left( |\beta_{1}| |\lambda_{i}|^{k} \right) \left( \sum_{i=1}^{\infty} \frac{\beta_{i}}{\beta_{1}} \left( \frac{\lambda_{i}}{\lambda_{i}} \right)^{k} V_{i} \right)$ 11 Y2 + 5 1/3/ V: 11/2

X=1-1-1

$$Av_1 = \lambda v_1$$
  $\Rightarrow$   $A(-v_1) = \lambda (-v_1) \Rightarrow Av_1^* = \lambda v_1^*$ ,  $v_1^*$  show  $18.08$ .

$$\lambda^{(k)} = \frac{\left(V^{(k)}, AV^{(k)}\right)}{\left(V^{(k)}, V^{(k)}\right)} \xrightarrow{k \to \infty} \frac{\left(V_1, AV_1\right)}{\left(V_1, V_1\right)} = \frac{\left(V_1, \lambda_1 V_1\right)}{\left(V_1, V_1\right)} = \frac{\lambda_1\left(V_1, V_1\right)}{\left(V_1, V_1\right)} = \lambda_1$$

$$A = \begin{bmatrix} 2 & 0 \\ -1 & 1 \end{bmatrix} \quad \text{(o)} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

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