

Now,
$$t = \begin{bmatrix} 1 & -1 \\ 1 & 1 \end{bmatrix}$$
 and $\chi \in \chi_2$

$$\chi_2 = \left\{ \chi \left[\chi_1 - \chi_2 = 1 \right], \chi \in \mathbb{R}^2 \right\}$$

$$= \left\{ \chi = \left(\chi_1, \chi_1 - 1 \right) : \chi_1 \in \mathbb{R}^2 \right\}$$

$$= \left\{ \chi = \left(\chi_1, \chi_1 - 1 \right) : \chi_1 \in \mathbb{R}^2 \right\}$$

$$\vdots \quad \chi_1 = \left[\chi_1 - 1 \right] = \left[\chi_1 - (\chi_1 - 1) \right] = \left[\chi_1 - (\chi_1 - 1) \right]$$

$$+ \chi_1 \in \chi_2$$

$$A(\chi_2) = \{(1, 2\chi_1 - 1) : \chi_1 \in \mathbb{R}\}$$

= \{(1, 2t-1) : t \in \mathbb{R}\}

