$$\begin{aligned} & = \times 4.2) & = \times 4.2 \\ & = \times 4.2) & = \times 4.2 \\ &$$

Extension of
$$Q_2$$
: $Q_5 = \begin{cases} 0.6 \\ (a,5,x,i) \end{cases} + 0.2 \\ (a,5,x,i) \end{cases} + 0.2 \\ (a,5,x,i) \end{cases} + 0.2 \\ (a,5,x,i) \end{cases} + 0.9 \\ (a,5,x,i)$

$$E_{x}4.3) \quad Q_{1} = \begin{pmatrix} 1 & 0 & 0.7 \\ 0.3 & 0.2 & 0 \\ 0.02 & 1 \end{pmatrix}, \quad Q_{2} = \begin{pmatrix} 0.6 & 0.6 & 0.6 \\ 0.6.6 & 0.6 & 0.6 \\ 0.0.1 & 0 \end{pmatrix}, \quad Q_{3} = \begin{pmatrix} 1 & 0 & 0.7 \\ 0.7 & 0 & 1 \end{pmatrix}$$

$$mox-min: \quad Q_{1} \circ Q_{2} = \max_{max} \begin{pmatrix} (0.6.60, 0) & (0.6.60, 0.1) & (0.90, 0) \\ (0.3, 0.9) & (0.3, 0.2, 0) & (0.90, 1.9) \\ (0.3, 0.9) & (0.90, 2.9, 0) & (0.90, 1.9) \end{pmatrix} = \begin{pmatrix} 0.6 & 0.6 & 0.6 \\ 0.3 & 0.3 & 0.1 \\ 0.3 & 0.7 \end{pmatrix}$$

$$Q_{1} \circ Q_{3} = \max_{max} \begin{pmatrix} (0.6, 0.9) & (0.90, 2.9) & (0.6.60, 0.9) \\ (0.3, 0.9) & (0.90, 2.9) & (0.6.60, 0.9) \\ (0.9, 0.9) & (0.90, 2.9) & (0.6.60, 0.9) \end{pmatrix} = \begin{pmatrix} 0.6 & 0.6 & 0.6 \\ 0.3 & 0.7 & 0.1 \\ 0.3 & 0.7 & 0.1 \end{pmatrix}$$

$$max Produt: \quad Q_{1} \circ Q_{2} = \max_{max} \begin{pmatrix} (0.6, 0.9) & (0.6.60, 0.9) & (0.6.60, 0.9) \\ (0.6, 0.9) & (0.6.60, 0.9) & (0.90, 0.9) \\ (0.6, 0.9) & (0.6.60, 0.9) & (0.90, 0.9) \end{pmatrix} = \begin{pmatrix} 0.6 & 0.6 & 0.6 \\ 0.3 & 0.3 & 0.3 \\ 0.1 & 0.2 & 0.1 \end{pmatrix}$$

$$Q_{1} \circ Q_{3} = \max_{max} \begin{pmatrix} (0.6, 0.9) & (0.6.60, 0.9) & (0.6.60, 0.9) \\ (0.6, 0.9) & (0.6.60, 0.9) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) \end{pmatrix} = \begin{pmatrix} 0.6 & 0.6 & 0.6 \\ 0.6 & 0.6 & 0.42 \\ 0.7 & 0.2 & 1 \end{pmatrix}$$

$$Q_{1} \circ Q_{3} = \max_{max} \begin{pmatrix} (0.6, 0.9) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) \end{pmatrix} = \begin{pmatrix} 0.6 & 0.6 & 0.42 \\ 0.7 & 0.2 & 1 \end{pmatrix}$$

$$Q_{1} \circ Q_{3} = \max_{max} \begin{pmatrix} (0.6, 0.9) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) \end{pmatrix} = \begin{pmatrix} 0.6 & 0.6 & 0.42 \\ 0.7 & 0.2 & 1 \end{pmatrix}$$

$$Q_{1} \circ Q_{3} = \max_{max} \begin{pmatrix} (0.6, 0.9) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) \\ (0.9, 0.7) & (0.90, 0.9) & (0.90, 0.9) \end{pmatrix} = \begin{pmatrix} 0.6 & 0.6 & 0.42 \\ 0.7 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13 \\ 0.17 & 0.18 & 0.13$$

4.4)
$$A = \left\{ \circ \frac{s}{(-1)} + \frac{o \frac{s}{s}}{(0)} + \frac{1}{(1)} + \frac{o \frac{s}{s}}{(2)} \right\}$$
, $f(x) = x^{2}$

$$f(A) = \left\{ \begin{array}{c} \circ \frac{s}{s} + \frac{1}{(1)} + \frac{o \frac{s}{s}}{(2)} \right\}$$

$$f(A) = \left\{ \begin{array}{c} \circ \frac{s}{s} + \frac{1}{(1)} + \frac{o \frac{s}{s}}{(2)} \right\}$$

$$f(A) = \left\{ \begin{array}{c} \circ \frac{s}{s} + \frac{1}{(1)} + \frac{o \frac{s}{s}}{(2)} \right\}$$

$$f(A) = \left\{ \begin{array}{c} \circ \frac{s}{s} + \frac{1}{(1)} + \frac{o \frac{s}{s}}{(2)} \right\}$$

$$f(A) = \left\{ \begin{array}{c} \circ \frac{s}{s} + \frac{1}{(1)} + \frac{o \frac{s}{s}}{(2)} \right\} \\ f(A) = \left\{ \begin{array}{c} \left(\frac{s}{s} - \frac{s}{s} \right)^{2} \\ f(A) = \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} \\ f(A) = \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} \\ f(A) = \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} \\ f(A) = \frac{1}{(2)} + \frac{1}{(2)} \\ f(A) = \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} + \frac{1}{(2)} \\ f(A) = \frac{1}{(2)} + \frac{1}{(2)} +$$