

$$f(x) = x^2 + \log_{10}(x) + 1$$

$$f(2) = 2^2 + \log_{10}(2) + 1$$

$$\underline{\underline{F}} = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$$

$$f(\underline{\underline{F}}) = \begin{bmatrix} f(1) & f(2) \\ f(3) & f(4) \end{bmatrix} = \begin{bmatrix} 1^2 + \log_{10}(1) + 1 & 2^2 + \log_{10}(2) + 1 \\ 3^2 + \log_{10}(3) + 1 & 4^2 + \log_{10}(4) + 1 \end{bmatrix}$$