Problem 3). e<sup>2×0.6</sup>(05(3×0.6) 1. PCD = 3.75x +1.62x +1 Δ= +0(6) (x-0.6)(x-0.3)χ ≤ 0.25 12.1 (x) P(x) = -1.6x10-3x2. +0.01x -0.01 [X-2) (X-2.4) [X-2.67] = 3.2x10 Problem 2.  $P(x) = 6x^{3} + bx^{2} + cx$  $y = 6 \times 0.5^3 - 20 \times 0.5^2 + 17 \times 0.5 = 4.25$ Problem 3
Po.1,2 = (X-X0) P1.2 - (X-X2) P0.1 2  $P_{0,2} = \frac{(\chi - \chi_0)^2 - (\chi - \chi_2)^2}{\chi_2 - \chi_0} = \frac{(\chi - \chi_0)^2 - (\chi - \chi_2)^2}{\chi_0} = \frac{(\chi - \chi_0)^2 - (\chi - \chi_0)^2}{\chi_0} = \frac{(\chi -$ 1. P, = +10.5) = 1.5  $P_{1,2} = \frac{(X-X_1)P_2 - (X-X_2)P_1}{X_2 - X_1} = \frac{(X-0.25)x|.5 - (X-0.5)x2}{0.25}$  = -2X + 2.5  $\frac{(X-X_1)P_2 - (X-X_2)P_1}{0.25}$   $\frac{(X-0.25)x|.5 - (X-0.5)(2X+1)}{0.5}$   $\frac{(X-0.25)x|.5 - (X-0.5)(2X+1)}{0.5}$ = -8x2+8x+1- $\frac{1}{2} \left[ \frac{1}{2} \left( \frac{1}{2} \right) \right] = \frac{(2.5-0) \cdot \left[ \frac{1}{2} \cdot \frac{1}{3} \left( \frac{1}{2} \cdot \frac{1}{5} \right) - \left( \frac{1}{2} \cdot \frac{1}{5} - 0.75 \right) \cdot \left[ \frac{1}{6} \cdot \frac{1}{12} \left( \frac{1}{2} \cdot \frac{1}{5} \right) \right]}{\chi_3 - \chi_3}$ 

77.7.

製作 扫描全能王 创建

Problem 4: 1 - [X] = 3 1 = 5 K CK ] +1 :. frex. ] = 1. Problem 5: @ ho = 1-0=1 . h, =2-1=1  $S_{j}(x) = \alpha_{j} + b_{j}(x - x_{j}) + C_{j}(x - x_{j})^{2} + O_{j}(x - x_{j})^{3}$  $a_0 = 0$ ,  $a_1 = 1$ ,  $a_2 = 2$  $\begin{bmatrix} 1 & 4 & 7 \\ 0 & 0 & 1 \end{bmatrix} \cdot \begin{bmatrix} C_0 \\ C_1 \\ C_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$ [Co, C, Cz] = [0 0 0]T 1 Ibo b. b2 IT = [1 IdodidijT = [000] (x)=/ X 1+ (X-1) =X 2+ (X-2) = X

 $\begin{bmatrix} 1 & 0 \\ 4 & 1 \\ 1 & 2 \end{bmatrix} \begin{bmatrix} C_0 \\ C_1 \\ C_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}.$ : [Co C, C, ] = [0,0,0]T SUN =X