$f(x) = 3 - 17x^3$, at x=2.5 $p_2(x) = F(32.5) + F'(2.5)(2.5-2.5) + F''(2.5)(2.5-2.5)$ + \$11/25/(25-25) $R_{a}(2.5) = F(2.5) - p_{a}(2.5) = 3$

5
$$f(x) = 16x^{5} - 73x^{7} - 133$$
 $g = 2.5$ $g = 0.001$
 $f(x_{0}) - f(x_{0})$
 $f(x_{0}) - f(x_{0})$

A=
$$\begin{bmatrix} 0 & -3 & -2 & 1 & 0 & 0 \\ 1 & -4 & -2 & 0 & 1 & 0 \\ -3 & 4 & 1 & 0 & 0 & 1 \end{bmatrix}$$

Write agreed matrix

$$\begin{bmatrix} 1 & -4 & -2 & 0 & 1 & 0 & 0 \\ 0 & -3 & -2 & 1 & 0 & 0 \\ 0 & -6 & -5 & 0 & 3 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -4 & -2 & 0 & 1 & 0 \\ 0 & -6 & -5 & 0 & 3 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -4 & -2 & 0 & 1 & 0 \\ 0 & -6 & -5 & 0 & 3 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -4 & -2 & 0 & 1 & 0 \\ 0 & -8 & -5 & 0 & 3 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -4 & -2 & 0 & 1 & 0 \\ 0 & -8 & -5 & 0 & 3 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & \frac{2}{3} & -\frac{4}{3} & 1 & 0 \\ 0 & 0 & \frac{2}{3} & -\frac{2}{3} & 5 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & \frac{2}{3} & -\frac{4}{3} & 1 & 0 \\ 0 & 0 & \frac{2}{3} & -\frac{2}{3} & 5 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & \frac{2}{3} & -\frac{4}{3} & 1 & 0 \\ 0 & 0 & \frac{2}{3} & -\frac{2}{3} & 3 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & \frac{2}{3} & -\frac{4}{3} & 1 & 0 \\ 0 & 0 & \frac{2}{3} & -\frac{2}{3} & 3 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 0 & 4 & -5 & 2 \\ 0 & 1 & -8 & 9 & 3 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 0 & 4 & -5 & 2 \\ 0 & 1 & -8 & 9 & 3 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 0 & 4 & -5 & 2 \\ 0 & 1 & -8 & 9 & 3 \end{bmatrix}$$

Interse =
$$\begin{bmatrix} 4 & -5 & -2 \\ 5 & -6 & -2 \end{bmatrix}$$

-8 9 3

$$12x. + 7x_{1} + 3x_{3} = 2$$

$$x. + 5x_{1} + x_{3} = -5$$

$$2x. + 7x_{2} - 11x_{3} = 6$$

$$x_{3} = 5$$

$$x_{1} = 2 - 7x_{1} - 3x_{3}$$

$$x_{2} = -5 - x_{1} - x_{3}$$

$$x_{3} = 6 - 2x_{1} - 7x_{2}$$

$$x_{3} = 6 - 2x_{1} - 7x_{2}$$

$$x'' = 2 - 7(3) - 3(5) = \left[-\frac{17}{6} = x'' \right]$$

$$x_2^{(1)} = -5 - (1) - (5) = -11 = x_2^{(1)}$$

$$\chi_3^{(1)} = 6 - 2(1) - 7(3) = 17 = \chi_3^{(1)}$$

$$\chi^{(2)} = 2 - 7(-\frac{1}{3}) - 3(\frac{17}{11}) = \frac{117}{110} = \chi^{(2)}$$

$$\chi_{2}^{(2)} = -S - (-\frac{17}{16}) - (\frac{17}{11}) = -\frac{193}{176} = \chi_{2}^{(2)}$$

$$\chi_3^{(2)} = 6 - 2(-\frac{17}{6}) - 7(-\frac{11}{5}) = -\frac{406}{165} = \chi_3^{(2)}$$

$$\chi_{(3)} = 2 - 7(\frac{103}{165}) - 3(\frac{-406}{165}) = \frac{100}{165} = 0.161363 = \chi_{(3)}$$

$$\chi_{2}^{(3)} = -5 - \left(\frac{117}{110}\right) - \left(-\frac{406}{165}\right) = \left[-0.720606 = \chi_{2}^{(3)}\right]$$

$$\chi_{3}^{(3)} = 6 - 2\left(\frac{117}{110}\right) - 7\left(-\frac{193}{176}\right) = \left[-1.049867 = \chi_{3}^{(3)}\right]$$

-11

10.
$$\begin{bmatrix} 1 & 2 & 4 \\ 3 & 9 & 14 \\ 2 & 6 & 13 \end{bmatrix} \times \begin{bmatrix} 2 & 4 \\ 2 & 6 & 13 \end{bmatrix}$$