MCQ

- 1 Stores the number
- 2 -15.5 \$ +15.5
- 3 valves of e
- Gaves the number & unique representation

9

Time (s)

3 5

Distance (m)

225

383

Speed (mj1)

77

OB

P3 (x) = f(x0)ho (x) + f(x1) h1(x) + f'(x0) ho (x) + f'(x1) h, (x)

$$L_0 = \frac{\chi - \chi_1}{\chi_0 - \chi_1} = \frac{\chi - 5}{3 - 5} = \begin{bmatrix} -\frac{1}{2}\chi + \frac{5}{2} \end{bmatrix}$$

$$l_1 = \frac{\chi - \chi_0}{\chi_1 - \chi_0} = \frac{\chi - 3}{5 - 3} = \boxed{\frac{1}{2}\chi - \frac{3}{2}}$$

$$I' = \frac{1}{2}$$

$$h_{K}(x) = \left(1 - 2(x - \chi_{K})l_{K}'(\chi_{K})\right)l_{K}^{2}(\chi)$$

$$h_a(x) = (1-2(x-3)l_o'(x_o))l_o^2(x)$$

$$=(\chi-2)(-\frac{1}{2}\chi+\frac{5}{2})^2$$

$$h_{1}(x) = (1-2(x-5)\frac{1}{2}) (\frac{1}{2}x-\frac{3}{2})^{2}$$

$$= (1-x+5) (\frac{1}{2}x-\frac{3}{2})^{2}$$

$$\frac{1}{2} (-x+6) (\frac{1}{2}x-\frac{3}{2})^{2}$$

$$h_{1}(x) = (x-x_{0}) (-\frac{1}{2}x+\frac{5}{2})^{2}$$

$$= (x-3) (-\frac{1}{2}x+\frac{5}{2})^{2}$$

$$\frac{1}{2} (x-5) (\frac{1}{2}x-\frac{3}{2})^{2}$$

$$\frac{1}{2} (x-3) (x-2) (-\frac{1}{2}x+\frac{5}{2})^{2} + (383) (-x+6) (\frac{1}{2}x-\frac{3}{2})^{2}$$

$$\frac{1}{2} (x-3) (x-2) (x-2)$$