$$\int_{0}^{2} (x) = \frac{(x-x_{1})}{x_{0}-x_{1}} \rightarrow \int_{0}^{2} (x_{0}) = 1$$

$$\int_{0}^{2} (x) = \frac{(x-x_{0})}{x_{0}-x_{1}} \rightarrow \int_{0}^{2} (x_{0}) = 0$$

$$\int_{0}^{2} (x) = \frac{(x-x_{0})}{x_{0}-x_{1}} \rightarrow \int_{0}^{2} (x_{0}) = 0$$

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P(M) = -4x+3 P(O)=3, P(M)=-1

Quadratic Interpolation
-fino) - eini) pr

Quadratic Interpolation (x_0, y_0) (x_1, y_1) (x_2, y_n) n = 2Co N1 7(2 X y to y, y 2 P2(x)= lo(x)f(no) + l(x)f(z) + l2(n)f(ny) Lo(n) = (x-x,)(n-n2) $Q_{1}(x) = (x-x_{0})(x-x_{2})$ (1,-xp)(x,-x2) l2(x) = (x-x0) (x-x,) (x2-x0)(x2-x,) Method-3 (Kagrange)
apphroxumf(1.5) eg_02 y -8 3 1 12 (n+1) f(x) p(x) p(x) $\mu(x)$ 4 $\mu(x)$ $\mu(x) \rightarrow \mu(x)$ polynomial of degree < 3 $P_3(x) = l_0(x) f(x_0) + l_1(x) f(x_0) +$ 2(x) P(x2) + l3(x) f(x3) $\frac{\left(\chi - \chi_{1}\right)\left(\chi - \chi_{2}\right)\left(\chi - \chi_{3}\right)}{\left(\chi_{0} - \chi_{1}\right)\left(\chi_{0} - \chi_{2}\right)\left(\chi_{0} - \chi_{3}\right)} = \frac{(\chi - 0)(\chi - 2)(\chi - 3)}{(-1 - 0)(-1 - 2)(-1 - 3)} \\
= \frac{\left(\chi(\chi - 2)(\chi - 3)\right)}{(-1 - 0)(-1 - 2)(-1 - 3)}$ $\begin{array}{c} \left(\frac{1}{12} \right) = \left(\frac{1}{12} - \frac{1}{12} \right) \left(\frac{1}{12} - \frac{1}{1$

DY.	wt'	0-40	40-60	60-80	80-100	100-120	
	No. of stude	250		loo		55	

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