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(91)

opt 2:
a)

$$(x) = \frac{x - x_1}{x_0 - x_1} \cdot \frac{x - x_2}{x_0 - x_2} \cdot \frac{x - x_3}{x_0 - x_3} = \frac{x - 0}{-2 - 0} \cdot \frac{x - 1}{-2 - 3} \cdot \frac{x - 3}{-2 - 0}$$

$$=\frac{x}{-2}, \frac{x-1}{-3}, \frac{x-3}{-5}$$

$$= \frac{x_1(x-1),(x-3)}{-30}$$

$$L_1(x) = \frac{x+2}{2}, \frac{x-1}{-1}, \frac{x-3}{-3} = \frac{(x+2)(x-1).(x-3)}{6}$$

$$L_{2}(x) = \frac{x+2}{1+2}, \frac{x}{1}, \frac{x-3}{1-3} = \frac{(x+2)(x)(x-3)}{-6}$$

$$L_3(x) = \frac{x+2}{5} \cdot \frac{x}{3} \cdot \frac{(x-1)}{2} = \frac{(x+2) \times (x-1)}{30}$$

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6)

 $-27. \frac{x.(x-1)(x-3)}{-30} + -1.(x+2)(x-1)(x-3) +$

1. (x+2). x (x-1)

 $f(3) = 0 + 0 + \frac{5 \cdot 3 \cdot 2}{30} = 1$

Mustafa Cen Galiskon 150200097 92) Opt 2: $f[x_0]$ $f[x_0,x_1]$ $f[x_0,x_1]$ $f[x_0,x_1,x_2]$ $f[x_0,x_1]$ f02) $P(x) = 1 + 1.(x-1) + \frac{1}{4}(x-1)(x-3)$ $(+(x-1) + x^2 - 4x + 3)$ $(+(x-1) + x^2 -$

Musteta Con Galisto (2) 000 5) $f(x)=1+(x-1)+\frac{1}{4}(x-1)(x-3)-\frac{7}{60}(x-1)(x-3)(x-5)$