011449126

Assignment 4

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$$(3,1), (1,0.12), (0,-0.3), (4,2), (7,2.5)$$
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$$\frac{1}{(o-3)(o-1)(o-4)(o-7)} = \frac{(4-3)(4-1)(4-o)(4-7)}{(4-3)(4-1)(4-o)(4-7)}$$

$$+ 2.5 \frac{(x-3)(x-1)(x-o)(x-4)}{(7-3)(7-1)(7-o)(7-4)}$$

$$\frac{1}{(2)} = \frac{(x^2-x)(x^2-1)x+28}{(x^2-3x)(x^2-1)x+28} + o.12 \frac{(x^2-3x)(x^2-1)x+28}{(x^2-3x)(x^2-1)x+28}$$

$$\begin{array}{r}
-36 \\
+-0.3 \frac{(x^2-4x+3)(x^2-11x+28)}{84} + 2 \frac{(x^2-4x+3)(x^2-7x)}{-36} \\
+2.5 \frac{(x^2-4x+3)(x^2-4x)}{504}
\end{array}$$

$$f(2) = \frac{x^{4} - 11 \times^{3} + 28 \times^{2} - x^{3} + 11 \times^{2} + 28 \times 1 + 0.12}{24} \frac{x^{4} - 11 \times^{3} + 28 \times^{2} - 3 \times^{3} + 33 \times^{2}}{-36}$$

$$+ (0.3) \cdot \frac{x^{4} - 11 \times^{3} + 28 \times^{2} - 4 \times^{3} + 44 \times^{2} - 112 \times + 3 \times^{2} - 33 \times + 84}{84}$$

$$\beta(x) = \frac{x^{4} - 17x^{2} + 39x^{2} + 28x}{24} + 0.12 \frac{x^{4} - 14x^{3} + 61x^{2} - 84x}{-36} + (-6.3) \frac{x^{4} - 15x^{3} + 75x^{2} - 145x + 84}{64} + 2 \frac{x^{4} - 11x^{3} + 71x^{2} - 71x}{-36} + 2.5 \frac{x^{4} - 4x^{3} + 15x^{2} - 12x}{564}$$

$$f(2) = -6.6158273x^{4} + 6.171617x^{3} - 6.474167x^{2} + 0.738373x - 0.3$$

$$\beta(2) = 6.4$$
Exercise 2

$$f(x) = p^{-1} + p^{-1}(x-x^{-1}) + p^{-2}(x-x^{-1}) + p^{-1}(x-x^{-1}) + p^{-1}(x-x^{-1$$