

HW 15

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$$x(n) = \frac{x(n-1) + 2x(n-2) + 3x(n-3) + 11x(n-4)}{x(n-1) + x(n-3)}$$

$$x^1(n) = \frac{x^1(n-1) + 2x^2(n-1) + 3x^3(n-1) + 11x^4(n-1)}{x^1(n-1) + x^3(n-1)}$$

$$x^2(n) = x^1(n-1)$$

$$x^3(n) = x^2(n-1)$$

$$x^4(n) = x^3(n-1)$$