

$$a(n,N) := \frac{(2 \cdot N - n)!}{2^{N-n} \cdot n! \cdot (N - n)!} \qquad \theta(N,s) := \sum_{n=0}^N \left(a(n,N) \cdot s^n \right)$$

$$\theta(2,x) \rightarrow x^2 + 3 \cdot x + 3$$

$$\theta(3,x) \rightarrow x^3 + 6 \cdot x^2 + 15 \cdot x + 15$$

$$\theta(4,x) \rightarrow x^4 + 10 \cdot x^3 + 45 \cdot x^2 + 105 \cdot x + 105 \qquad \textcolor{green}{H}(p,N) := \frac{15}{\theta(N,p)} \qquad H(p,3) \rightarrow \frac{15}{p^3 + 6 \cdot p^2 + 15 \cdot p + 15}$$

$$n := 6$$

$$p1 := \theta(n,s) \left| \begin{array}{l} \text{solve, } s \\ \text{float, } 5 \end{array} \right. \rightarrow \left(\begin{array}{l} -2.5159 + 4.4927i \\ -3.7357 - 2.6263i \\ -4.2484 - 0.86751i \\ -3.7357 + 2.6263i \\ -2.5159 - 4.4927i \\ -4.2484 + 0.86751i \end{array} \right) \qquad p3 := p^3 + 6 \cdot p^2 + 15 \cdot p + 15 \left| \begin{array}{l} \text{solve, } p \\ \text{float, } 4 \end{array} \right. \rightarrow \left(\begin{array}{l} -2.322 \\ -1.839 + 1.754i \\ -1.839 - 1.754i \end{array} \right)$$

$$t := 0, .01..2 \cdot \pi$$

$$\textcolor{green}{s}(t) := 5.55 \sin(t) \qquad \textcolor{green}{c}(t) := 4.26 \cos(t)$$

