

$$\tau_{\text{H}} := 3 \qquad T := 30 \qquad E := 10$$

1

$$q := \frac{T}{\tau_{\text{H}}} \qquad q = 10$$

$$\text{TOL} := 10^{-8}$$

$$S(t) := \left| \begin{array}{l} E \text{ if } -T - \frac{\tau_{\text{H}}}{2} \leq t \leq -T + \frac{\tau_{\text{H}}}{2} \\ E \text{ if } -\frac{\tau_{\text{H}}}{2} \leq t \leq \frac{\tau_{\text{H}}}{2} \\ E \text{ if } T - \frac{\tau_{\text{H}}}{2} \leq t \leq T + \frac{\tau_{\text{H}}}{2} \\ 0 \text{ otherwise} \end{array} \right.$$

2

$$f_0 := \frac{1}{T} \qquad f_0 = 0.033$$

$$a_0 := \frac{2E}{q} \qquad a_0 = 2$$

$$a(n) := \left| \begin{array}{l} \frac{2E}{n \cdot \pi} \cdot \sin\left(\frac{n \cdot \pi}{q}\right) \text{ if } n > 0 \\ a_0 \text{ if } n = 0 \end{array} \right.$$

3

$$b(n) := 0$$

$$A(n) := |a(n)|$$

$$f(n) := f_0 \cdot n \qquad n := 0, 1 \dots 190 \qquad \text{nogib} := 0, 0.01 \dots 190$$

$$m := 1 \dots 5$$

$$f_i(m) := \frac{m}{\tau_{\text{H}}}$$

$$m =$$

1
2
3
4
5

$$f_i(m) =$$

0.333
0.667
1
1.333
1.667

4

$$\Pi := 180 \qquad \text{no} := -100, -99.99 \dots 100$$

$$\Theta(n) := \left| \begin{array}{l} -\Pi \text{ if } 0 < f(n) \leq f_i(1) \\ -2\Pi \text{ if } f_i(1) < f(n) \leq f_i(2) \\ -3\Pi \text{ if } f_i(2) < f(n) \leq f_i(3) \\ -4\Pi \text{ if } f_i(3) < f(n) \leq f_i(4) \\ -5\Pi \text{ if } f_i(4) < f(n) \leq f_i(5) \end{array} \right.$$

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