diff 
$$n = \frac{b-a}{2^n} \le 70L = \frac{Q-1}{2^N} \le 0.0001$$
  
=)  $2^{-N} \le 10^{-4} = \frac{Q-1}{2^N} \le 0.0001$   
(+) Robust, always converges:

(=) Very 810W 
$$-N \log_{12} \le -4$$
  
 $f(x) = x^{3} + 4\pi^{2} - 10$   $= N \log_{12} 2 = 4$   
 $= \log_{12} 2 = 4$