tolsk 1.1

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 $f(x)$

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check: N 1 2 3 4 5 6 $\frac{1}{2}$ $\frac{1$ 2. to find summation, vowrite f(n) as f(n)= 分键 if n is odd (量 if n is even. for even n s.t. 1≤n≤ 1000, 1= = = > × × s.t. 1≤ x ≤ 800 for add n s.t. 1≤n≤1000, == = X x s.t. 1≤x≤500

$$\frac{4}{5} - \frac{1}{2} = \frac{7}{3} \frac{1}{2} \frac{1}{2} + \frac{1}{1} + \frac{1}{1} \cdot \frac{1}{3} \cdot \frac{1}{4} + \frac{1}{1} \cdot \frac{1}{4} \cdot \frac{1}{4$$

$$\Rightarrow \sum_{i=1}^{500} \frac{1}{i} = 1 + \frac{1}{2} + \frac{1}{3} + \dots = 6.7928$$
 (using wolfram alpha)

3.
$$f(-2.7) = \frac{1-3(-1)^{-2.7}}{-2.7+1-(-1)^{-2.7}} = \frac{2.763365}{-2.7+0.7939} = -1.4497...$$
 (wolfram)

(-1)^{-2.7} is a complex #
$$\Rightarrow$$
 can be approx. Using the real part $(-1)^{-2.7} \approx -0.587785 - 0.809017$; (wolfram alpha) ≈ -0.587785