

Problem Set: Problem-Solving Strategies

For each of these problems, experiment numerically with the given problem, and try to come up with conjectures. Then, try to prove that your conjectures are corrected. Some of your ideas may work, and some of your ideas may not. The goals of this problem set are for you to work on some difficult problems, to get used to brainstorming, and to think about various strategies for approaching problems. For example, try small cases and look for patterns. Choose effective notation. Try the problem with different numbers. Don't be afraid of doing some algebra.

1. Define the function $f(x)$ by

$$f(x) = \frac{1}{1-x}$$

and denote r iterations of the function f by f^r , i.e.

$$\begin{aligned} f^2(x) &= f(f(x)) \\ f^3(x) &= f(f(f(x))) \\ f^4(x) &= f(f(f(f(x)))) \end{aligned}$$

Compute $f^{1999}(2000)$.

2. (Putnam 1990) Let

$$T_0 = 2, T_1 = 3, T_2 = 6,$$

and for $n \geq 3$,

$$T_n = (n+4)T_{n-1} - 4nT_{n-2} + (4n-8)T_{n-3}.$$

The first few terms are

$$2, 3, 6, 14, 40, 152, 784, 5158, 40576, 363392.$$

Find a formula for T_n of the form

$$T_n = A_n + B_n,$$

where (A_n) and (B_n) are well-known sequences.

3. Let \mathbb{N} denote the natural numbers $\{1, 2, 3, 4, \dots\}$. Consider a function $f: \mathbb{N} \rightarrow \mathbb{N}$ which satisfies

$$f(1) = 1, f(2n) = f(n), f(2n+1) = f(2n) + 1$$

for all $n \in \mathbb{N}$. Find a nice simple algorithm for $f(n)$. Your algorithm should be a single sentence long, at most.

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Marco Cascella



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