

# Some Solved and Unsolved Problems of Mine in Number Theory

Paul Erdős

I.

Let  $p_1 < p_2 < \dots$  be the sequence of consecutive primes. Put  $p_{n+1} - p_n = d_n$ . It is well known that the sequence  $d_n$  behaves very irregularly. An old result of Ricci and myself states that the set of limit points of  $d_n/\log n$  has positive measure. "It is of course clear to every right thinking person" that the set  $d_n/\log n$  is dense in  $(0, \infty)$ , but we are very far from being able to prove this ("we" here stands for the collective intelligence (or rather stupidity) of the human race). By a result of Westzynthius,  $\infty$  is a limit point of  $d_n/\log n$  but no other limit point is known.

Turan and I easily proved that both inequalities  $d_n > d_{n+1}$  and  $d_n < d_{n+1}$  have infinitely many solutions; we noticed with some annoyance and disappointment that we could not prove that  $d_n > d_{n+1} > d_{n+2}$  has infinitely many solutions. We were even more annoyed when we soon noticed that we could not even prove that either  $d_n > d_{n+1} > d_{n+2}$  or  $d_n < d_{n+1} < d_{n+2}$  has infinitely many solutions. In other words we could not prove that for every  $n$ ,  $(-1)^i(d_{n+i+1} - d_{n+i})$  must have infinitely many changes of sign. I offer 250 dollars for a proof of this conjecture (and 25,000 for a disproof).

Put  $f(n) = \log n \log \log n \log \log \log n / (\log \log \log n)^2$ . Rankin proved in 1938 that

$$(1) \quad \limsup \left( \frac{d_n}{f(n)} \right) > 0 .$$

I offered 10,000 dollars for a proof of

$$(2) \quad \limsup \left( \frac{d_n}{f(n)} \right) = \infty .$$

# Solved And Unsolved Problems In Number Theory 3e 85

**Guillaume Favre**



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