

Prove that

$$(19.0) \quad \sum_{n=2}^{\infty} \left(\frac{A_n}{n} \right)^2 \leq 12 \sum_{n=1}^{\infty} a_n^2.$$

20. Evaluate the sum

$$S = \sum_{k=1}^n \sum_{l=1}^k \frac{\binom{n}{k}}{\binom{n-1}{l}}$$

for all positive integers n .

21. Let a and b be coprime positive integers. For k a positive integer, let $N(k)$ denote the number of integral solutions to the equation

$$(21.0) \quad ax + by = k, \quad x \geq 0, \quad y \geq 0.$$

Evaluate the limit

$$L = \lim_{k \rightarrow \infty} \frac{N(k)}{k}.$$

22. Let a , d and r be positive integers. For $k = 0, 1, \dots, n-1$ set

$$(22.0) \quad u_k = u_k(a, d, r) = \frac{1}{(a + kd)(a + (k+1)d) \dots (a + (k+r)d)}.$$

Evaluate the sum

$$S = \sum_{k=0}^n u_k,$$

where n is a positive integer.

23. Let x_1, \dots, x_n be n (> 1) real numbers. Set

$$x_{ij} = x_i - x_j \quad (1 \leq i < j \leq n).$$

Let F be a real-valued function of the $n(n-1)/2$ variables x_{ij} such that the inequality

$$(23.0) \quad F(x_{11}, x_{12}, \dots, x_{n-1,n}) \leq \sum_{k=1}^n x_k^2$$

holds for all x_1, \dots, x_n .

Prove that equality cannot hold in (23.0) if $\sum_{k=1}^n x_k \neq 0$.

24. Let a_1, \dots, a_m be m (≥ 1) real numbers which are such that $\sum_{k=1}^m a_k \neq 0$. Prove the inequality

$$(24.0) \quad \left(\sum_{k=1}^m a_k^2 \right) / \left(\sum_{k=1}^m a_k \right)^2 > \frac{1}{2\sqrt{m}}.$$

25. Prove that there exist infinitely many positive integers which are not expressible in the form $n^2 + p$, where n is a positive integer and p is a prime.

26. Evaluate the infinite series

$$S = \sum_{k=1}^{\infty} \arctan \left(\frac{2}{n^2} \right).$$

27. Let p_1, \dots, p_n denote n (≥ 1) distinct integers and let $f_n(x)$ be the polynomial of degree n given by

$$f_n(x) = (x - p_1)(x - p_2) \dots (x - p_n).$$

Prove that the polynomial

$$g_n(x) = (f_n(x))^2 + 1$$

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