Solutions

Twentieth International Olympiad, 1978

1978/1. Since 1978" and 1978" agree in their last three digits, the difference

$$1978^{n} - 1978^{m} = 1978^{m}(1978^{n-m} - 1)$$

is divisible by $10^3 = 2^3 \cdot 5^3$; and since the second factor above is odd, 2^3 divides the first. Also

$$1978^{m} = 2^{m} \cdot 989^{m}$$

so $m \ge 3$.

We can write m + n = (n - m) + 2m; to minimize this sum, we take m = 3 and seek the smallest value of d = n - m, such that $1978^d - 1$ is divisible by $5^3 = 125$, i.e.

$$1978^d = 1 \pmod{125}$$
.

We shall twice make use of the following

LEMMA. Let d be the smallest exponent such that $a^d \equiv 1 \pmod{N}$. Then any other exponent g for which $a^g \equiv 1 \pmod{N}$ is a multiple of d.

PROOF: If d does not divide g, then g = qd + r with 0 < r < d, and $a^g = a^{qd}a^r \equiv 1 \pmod{N}$ implies $a^r \equiv 1 \pmod{N}$ with 0 < r < d, contradicting the minimality of d. So $d \mid g$.

Fermat's theorem states: \dagger For any prime p and any integer a not divisible by p,

$$a^{p-1} \equiv 1 \pmod{p}.$$

For example,

$$1978^4 = 1 \pmod{5}$$
.

†For a proof, see e.g. p. 126 of S. L. Greitzer, The International Mathematical Olympiads, vol. 27 in this NML series.

Math Olympiad Problems And Solutions

Michael Rajnik

Math Olympiad Problems And Solutions:

Problems And Solutions In Mathematical Olympiad (Secondary 2) Xiong-hui Zhao, 2024-07-02 The series is edited by the head coaches of China's IMO National Team Each volume catering to different grades is contributed by the senior coaches of the IMO National Team The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level In each chapter well designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems Detailed solutions are provided selectively As a feature of the series we also include some solutions generously offered by the members of Chinese national team and national training team **Problems And Solutions In Mathematical Olympiad** (High School 3) Hong-bing Yu, 2022-03-16 The series is edited by the head coaches of China's IMO National Team Each volume catering to different grades is contributed by the senior coaches of the IMO National Team The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level In each chapter well designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems Detailed solutions are provided selectively As a feature of the series we also include some solutions generously offered by the members of Chinese national team and national training Problems And Solutions In Mathematical Olympiad (Secondary 1) Zun Shan, 2024-05-28 The series is edited by the team head coaches of China's IMO National Team Each volume catering to different grades is contributed by the senior coaches of the IMO National Team The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level In each chapter well designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems Detailed solutions are provided selectively As a feature of the series we also include some solutions generously offered by the members of Chinese national team and national training team Mathematical Olympiads 2000-2001 Titu

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