

# Practice problems for the Math Olympiad

## <Problem #7>

Prove that there are infinitely many positive integers which are not representable as a sum of cubes of two other positive integers.

**Proof:** Let us fix a positive integer  $n$  and let  $1 \leq x \leq n^3$ . Let us assume the positive number  $x$  can be represented as a sum of two cubes of two positive integers, i.e.  $x = a^3 + b^3$ . Then it is clear that

$$1 \leq a \leq n \text{ and } 1 \leq b \leq n$$

So there are  $n$  distinct  $a$  for  $1 \leq a \leq n$  and there are  $n$  distinct  $b$  for  $1 \leq b \leq n$ . Therefore, there are no more than  $n^2$  such pairs of  $a, b$  for which  $x = a^3 + b^3 \leq n^3$ . And there are  $n^3$  distinct  $x$  such that  $1 \leq x \leq n^3$ . So there are at least  $n^3 - n^2$  integers not representable as a sum of cubes of two positive integers. Since  $n^3 - n^2$  is a polynomial of positive degree with a leading coefficient 1, it can be made arbitrary large by making  $n$  sufficiently large. This proves the theorem.

## <Problem #8>

Show that a positive integer is divisible by 9 if and only if the sum of its digits is divisible by nine.

**Proof:** The  $n$ -digit positive integer

$$\overline{a_n a_{n-1} \dots a_2 a_1 a_0} = a_n \times 10^n + a_{n-1} \times 10^{n-1} + \dots + a_2 \times 10^2 + a_1 \times 10 + a_0, \quad (8.1)$$

where  $a_0, a_1, a_2, \dots, a_{n-1}, a_n$  are digits (meaning integers from 0 to 9) and  $a_n \neq 0$ .

Rewriting (8.1) by using  $10^i = 10 \cdot 0 = 9 \cdot 9 + 1$ , we get

$$\begin{aligned} & \overline{a_n a_{n-1} \dots a_2 a_1 a_0} \\ &= a_n \times \left( \underset{9}{9} \cdot \underset{9}{9} + 1 \right) + a_{n-1} \times \left( \underset{9}{9} \cdot \underset{9}{9} + 1 \right) + \dots + a_2 \times (99 + 1) + a_1 \times (9 + 1) + a_0 \\ &= a_n \times \underset{9}{9} + a_{n-1} \times \underset{9}{9} + \dots + a_2 \times 99 + a_1 \times 9 + (a_n + a_{n-1} + \dots + a_2 + a_1 + a_0) \end{aligned}$$

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**SJ Ball**



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