

26 XI 2002

*Bukiet 5*Udowodnij, że jeśli $a + b + c = 0$, to:

1. $a^2 + b^2 + c^2 = -2(ab + bc + ca)$;

2. $a^3 + b^3 + c^3 = 3abc$;

3.

$$\frac{a^3}{b^2c^2} + \frac{b^3}{c^2a^2} + \frac{c^3}{a^2b^2} = -5 \cdot \left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c} \right).$$

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