

## SOME GENERALIZATIONS OF PROBLEM no. 23523, G.M. 4/1996

**Abstract.** This note gives some generalizations of a problem published in "Gazeta Matematică": If  $x, y, z$  are three nonzero complex numbers such that  $x+y+z=0$  and  $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 0$ , it is requested to calculate  $x^n(y^n+z^n)$ , where  $n$  is a natural number non multiple of 3. (I.Cucurezeanu)

The reader is invited to make further generalizations of other interesting problems published in "Gazeta Matematică" or elsewhere, as an exercise for stimulating a creative spirit.

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