



PROBLEM # 675

Posted on: 13 October

Due on: 20 October

PROBLEM OF THE WEEK IS BACK!
This is the first problem of this school year.

Let a, b, c be distinct integers. Is there a polynomial P with integer coefficients such that the relations

$$P(a) = b, \quad P(b) = c, \quad \text{and} \quad P(c) = a$$

hold?

The problem of the week can be found online at

<http://potw.mth.cmich.edu/>

Solutions can be mailed to

chakr2d@cmich.edu

with subject line "POTW 675"