

Illinois Institute of Technology
Department of Applied Mathematics and IIT SIAM Student Chapter

Weekly Problem Competition

Friday, October 30, 2009

Solve the equation

$$x! + y! + z! = u!$$

in positive integers, where $n!$ denotes the product of first n positive integers ($n! := 1 \cdot 2 \cdot \dots \cdot n$).

Remarks:

The rules and results of the competition can be found at <http://www.math.iit.edu/~weeklyproblem>
Please feel free to tell any IIT undergraduate student about the competition

Thank you for your participation