



Problem of the Week #3

9/26/2022 to 10/9/2022

Without the aid of a computational device, solve for x in the following equation:

$$4043 = x + \frac{x}{1+2} + \frac{x}{1+2+3} + \cdots + \frac{x}{1+2+3+\cdots+4043}.$$

Solutions for this problem can be submitted to Dr. Brian Miceli at bmiceli@trinity.edu. People who submit solutions will be acknowledged on the next problem. If you like these problems, you may be interested in the Putnam Exam, and more information on the Putnam Exam may be found [HERE](#).

Solutions to the previous problem were submitted by Ziad Aramouni (Lebanon), Evan Fu (Beaverton, OR), Rob Hill (Gambrills, MD), Hari Kishan (India), Tengiz Kutchava (Georgia, the country), Yann Michel (Paris, France), Luciano Santos (Portugal), François Seguin (Amiens, France), and Zurab Zakaradze (Georgia, the country).