

Math Challenge Problem

for early February

Extra Cryptic Cryptarithmic

$$\begin{array}{r} \text{T O O} \\ + \text{T O O} \\ \hline \text{F O R} \end{array}$$

A cryptarithmic puzzle is an arithmetic problem in which each numeral has been replaced with a unique letter. The goal is to determine which letter represents which numeral to make the arithmetic valid.

The cryptarithmic puzzle above does not have a solution... **in base 10.**

The Challenge: Find all bases for which the above cryptarithmic puzzle has a *unique* solution.

Submit solutions to Ross 2239G or to oscar.levin@unco.edu by *Wednesday, February 15*.
The best solution will be posted on the Math Challenge Problem webpage.

Look for a new Challenge Problem for the second half of February.