Math Challenge Problem
for early February

Extra Cryptic Cryptarithmetic

\[
\begin{array}{c}
T O O \\
+ T O O \\
\hline
F O R \\
\end{array}
\]

A cryptarithmetic 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 cryptarithmetic puzzle above does not have a solution...in base 10.

The Challenge: Find all bases for which the above cryptarithmetic 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.