Arithmetic Progressions of Integers that are Relatively Prime to their Digital Sums Sarah Lohrey '25

A positive integer $b \geq 2$ is called $b$-antiNiven if it is relatively prime to the sum of the digits in its base-b representation. We explore the maximum lengths of sequences of consecutive b-anti-Niven numbers and arithmetic progressions of $b$-anti-Niven numbers. This research was done in Summer 2023 as part of the Moravian University Math and Computer Science REU Program.

> Wednesday, November 8, 2023
> at 7 p.m. in Park 245 or via Zoom
https://brynmawr-edu.zoom.us/j/95807982212?pwd=aXBBMnFZMUUyWDQ1S1d3TGozc0t5Zz09

## Meeting ID: 95807982212

