

Ask Math Anything

Study at Home with Po-Shen Loh

6 July 2020

Abstract

Professor Po-Shen Loh solves problems on his YouTube channel. A selection for practice.

Reference: [Ask Math Anything - Daily Challenge with Po-Shen Loh](#)

Sum of Digits

Sum the digits of

$$\underbrace{999 \dots 9}_{94 \text{ times}} \times \underbrace{777 \dots 7}_{95 \text{ times}}$$

A Mysterious Sequence

Complete the sequence

325, 263, 642, 436, 374, 753, 547, 485, ...

An Absolute Equation

Find the values of x that solve

$$|x - 1||2x - 4| = 5$$

Dancing Knight on a Calculator!

Using the chess rules for the Knight, can you stop at every number on the keypad exactly once?

