Mathletes Problem of the Week #1

Fun with 2017!

a) The sum of the digits of 2017 is 10. What is the next year in which this will occur?

b) The number 2017 requires 4 digits when written in base 10. Does it take 10 digits to write 2017 in base 4?

c) The number 2017 can be expressed as the difference of the squares of two consecutive whole numbers. What are these two numbers?

Solutions & Explanations: (Solve one or solve them all. Attach more paper if you need to!)

Name _____   Class _____

(First and last name, please!)   Solutions due: May 4th