

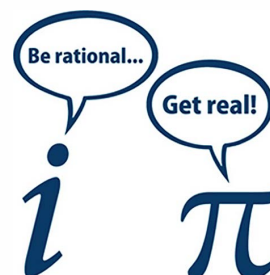
# Math Quest

August 6 - August 10, 2018

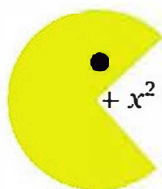
9am - 3pm

Limit 16 - Sign up now!

Rising 6th, 7th, & 8th graders who **enjoy** teamwork and have a **strong** desire for doing interesting mathematics during the summer are welcome to join!



*Polynom-nom-nom-nomial*



$$+ x^2 + x^3 + x^4 + x^5 + \dots$$

What will we be doing?

- Patterning from data collection
- Relay and competition math
- Mathematical Games (24, Set, Origami, Desmos, ...)

An example problem:

Take a 3-digit number, reverse its digits, and subtract the smaller from the larger. Reverse the digits of the result and add. Thus,

$$123 \text{ becomes } 321, \text{ and } 321 - 123 = 198$$

$$198 \text{ becomes } 891, \text{ and } 198 + 891 = 1089$$

Do this with more numbers. What do you notice?  
Explain why this happens.

## Location

Mass Academy of Math & Science  
85 Prescott Street  
Worcester, MA  
(508) 831-5859

## Registration

Contact Thomas Regele at:  
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