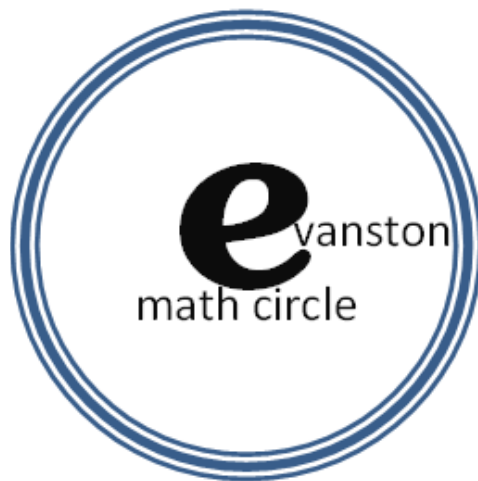


These numbers are unreal!

We all know that when we multiply an ordinary number by itself we cannot get a negative answer—that's just how numbers work, right? But what if I told you there was a different type of “number” you could multiply by itself to get, say, -1 as the answer? What if I told you we could find 6 different numbers we can multiply by themselves to get -1? We'll explore some algebraic and geometric properties of these type of numbers, known as “complex” and “quaternionic” numbers! Come join us at the

EVANSTON MATH CIRCLE Saturday, February 10



Northwestern University
Lunt Hall Room 107, 11:00 AM to 12:30pm

Math Circle is geared towards middle- and beginning high-school students, but students of other ages and backgrounds are welcome as well. More information is available at <http://www.math.northwestern.edu/~scanez/mathcircle/>

