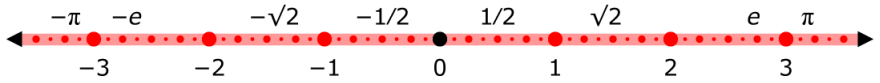
Everyone uses the integers

$$\ldots, -3, -2, -1, 0, 1, 2, 3, \ldots$$

and the real numbers

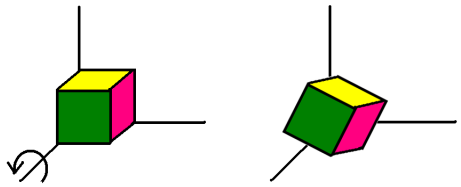


Beyond the real numbers are the complex numbers

$$a + b\mathbf{i}, \qquad \mathbf{i}^2 = -1$$

Have you ever wondered what lies beyond the complex numbers?

What does this have to do with 3D geometry and sums of squares?



$$n = a^2 + b^2 + c^2 + d^2$$

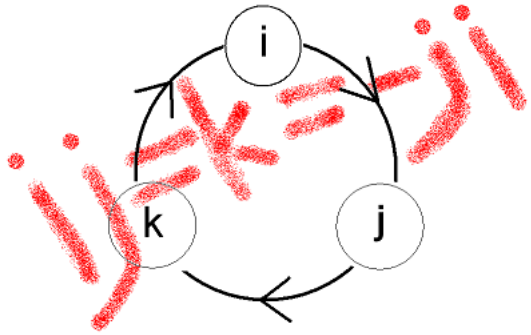
Find out at the next MATH TALK

"QUATERNIONS AND TIGERS AND BEARS! OH MY!"

Presented by Dr. Nick Werner

No prior knowledge will be expected!

Come for the pizza, stay to hear about a famous act of mathematical vandalism!



When: Thursday March 17
During Common Hour
Where: NAB 2123
Who: You, hopefully!

Sponsored by Student Affairs