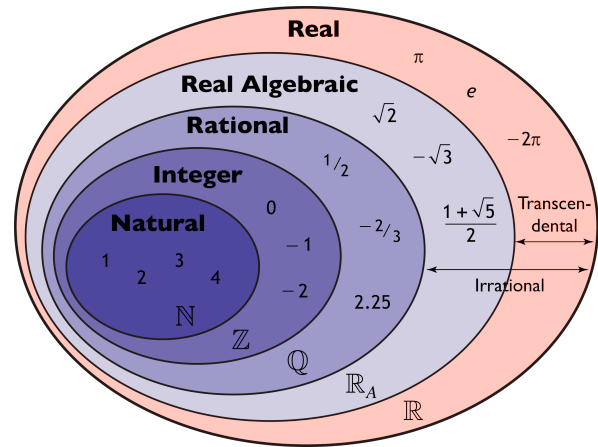


Some Irrationals I Have Known

John Martín
 Santa Rosa Junior College
 jmartin@santarosa.edu



My top ten favorite irrationals:

1. Pythagoras's Constant $\sqrt{2}$
2. The Golden Ratio ϕ
3. Archimedes's Constant π
4. The Base of the Natural Logarithm e
5. Liouville's Number 0.110001000000000000000000000000001000...
6. Hilbert's Number $2^{\sqrt{2}}$
7. Gelfond's Constant e^{π}
8. $i^i = e^{-\pi/2}$
9. Apéry's constant $\zeta(3) = \sum_{n=1}^{\infty} \frac{1}{n^3}$
10. Champernowne's number 0.123456789101112131415...

Additional Topics to Explore:

- Gelfond-Schneider theorem
- Transfinite Cardinals

Slides Used in the Presentation:

<http://online.santarosa.edu/homepage/jmartin/>

Scroll to the bottom for a link to a folder containing a PDF of the slides.