From Monday: $1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \cdots = 0.68\ldots$

Taylor series for $\arctan(x)$:

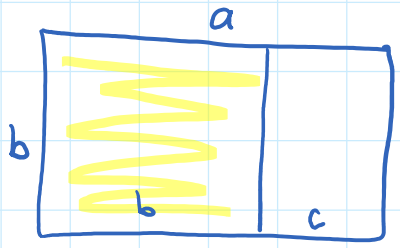
$$\arctan(x) = x - \frac{x^3}{3} + \frac{x^5}{5} - \frac{x^7}{7} + \cdots$$

Let $x = 1$: $\frac{\pi}{4} = \arctan(1) = 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \frac{1}{9} - \cdots$

$$\pi = 4\left(1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \frac{1}{9} - \cdots\right)$$

(3) Golden Ratio:

$\phi = 1.618\ldots$



$\frac{a}{b} = \frac{b}{c} = \phi$

$c = a - b$