

The τ vs π argument is really long and interesting

It is mostly a notational argument

Malcolm Ramsay

November 1, 2016



Why use τ when there is π

Theorem

τ is great when dealing with circles

1. Fourier transforms

$$\hat{f}(\zeta) = \int_{-\infty}^{+\infty} f(x) e^{-2\pi i x \zeta} dx \quad (1)$$

Why use τ when there is π

Theorem

τ is great when dealing with circles

1. Fourier transforms

$$\hat{f}(\zeta) = \int_{-\infty}^{+\infty} f(x) e^{-2\pi i x \zeta} dx \quad (1)$$

2. A simple pendulum

$$T \approx 2\pi \sqrt{\frac{L}{g}} \quad (2)$$