

One turn = $1\pi = 8 \arctan(1) = 6.283\dots$ radians.

$$\sin(x + \pi) = \sin(x)$$

$$e^{i\pi} = 1$$

$$n! \sim \sqrt{\pi n} n^n e^{-n}$$

$$A = \frac{1}{2}\pi r^2$$

$$\hbar = \frac{h}{\pi}$$

$$T = \frac{\pi}{\omega}$$

$$90^\circ = \frac{1}{4}\pi \text{ radians- a } \textit{quadrant}$$

$$c_n = \frac{1}{\pi} \int_0^\pi f(x) e^{inx} dx$$

$$f(a) = \frac{1}{\pi i} \int_C \frac{f(z)}{z - a} dz$$

$$\frac{1}{\pi} \int_{-\infty}^{\infty} e^{-\frac{1}{2}x^2} dx = 1$$

The n th roots of unity: $e^{\frac{j\pi i}{n}}$, $j = 0, \dots, n - 1$