

Approximations of π

There are many approximations for the value of π . The simplest is $\pi \approx 3$, but that approximation is not very accurate. The most common and slightly more accurate approximation is $\pi \approx 3.14$. The following are some other approximations of π that are less well known:

$$\frac{22}{7}$$

$$\frac{355}{115}$$

$$\frac{84823}{27000}$$

$$\frac{8}{3} + \frac{3}{5} - \frac{1}{8}$$

$$\sqrt{14} - \frac{3}{5}$$

$$\sqrt[3]{306}$$

$$\sqrt[3]{31}$$

$$(43)^{7/23}$$

$$\sqrt{527} - \sqrt{354} - 1$$

$$\frac{7^7 + \sqrt{\sqrt{\sqrt{5}}}}{4^9 - \sqrt{3}}$$

$$\frac{63(17 + 15\sqrt{5})}{25(7 + 15\sqrt{5})}$$

$$\frac{7}{3} \times \left(1 + \frac{\sqrt{3}}{5} \right)$$

3.141 592 653 589 793 238 462 643 383 279 502 884 197 169 399 375 105 820 974 ...