TABELLA DEI VALORI DELLE FUNZIONI TRIGONOMETRICHE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| gradi |  radianti  |  seno  | coseno | tangente | cotangente |
| 0 |  0  |  0  | 1 | 0 | \pm\infty |
| 15 |  \frac{\pi}{12}  | \frac{\sqrt{6}-\sqrt{2}}{4} | \frac{\sqrt{6}+\sqrt{2}}{4} | 2-\sqrt{3} | 2+\sqrt{3} |
| 18 |  \frac{\pi}{10}  |  \frac{\sqrt{5}-1}{4}  | \sqrt{\frac{5}{8}+\frac{\sqrt{5}}{8}} | \sqrt{\frac{1}{5}(5-2\sqrt{5})} | \sqrt{5+2\sqrt{5}} |
| 22°30'  |  \frac{\pi}{8}  |  \frac{\sqrt{2-\sqrt{2}}}{2}  | \frac{\sqrt{2+\sqrt{2}}}{2} | \sqrt{2}-1 | \sqrt{2}+1 |
| 30 |  \frac{\pi}{6}  |  \frac{1}{2}  | \frac{\sqrt{3}}{2} | \frac{\sqrt{3}}{3} | \sqrt{3} |
| 36 |  \frac{\pi}{5}  |  \frac{\sqrt{10-2\sqrt{5}}}{4}  | \frac{\sqrt{5}+1}{4} | \frac{\sqrt{25+10\sqrt{5}}}{5} | \sqrt{5-2\sqrt{5}} |
| 45 |  \frac{\pi}{4}  |  \frac{\sqrt{2}}{2}  | \frac{\sqrt{2}}{2} | 1 | 1 |
| 54 |  \frac{3}{10}\pi  |  \frac{\sqrt{5}+1}{4}  | \frac{\sqrt{10-2\sqrt{5}}}{4} | \frac{\sqrt{25+10\sqrt{5}}}{5} | \sqrt{5-2\sqrt{5}} |
| 60 |  \frac{\pi}{3}  |  \frac{\sqrt{3}}{2}  | \frac{1}{2} | \sqrt{3} | \frac{\sqrt{3}}{3} |
| 67°30'  |  \frac{3}{8}\pi  |  \frac{\sqrt{2+\sqrt{2}}}{2}  | \frac{\sqrt{2-\sqrt{2}}}{2} | \sqrt{2}+1 | \sqrt{2}-1 |
| 72 |  \frac{2}{5}\pi  |  \frac{\sqrt{10+2\sqrt{5}}}{4}  | \frac{\sqtr{6}-\sqrt{2}}{4} | 2+\sqrt{3} | 2-\sqrt{3} |
| 90 |  \frac{\pi}{2}  |  1  | 0 | \pm \infty | 0 |
| 105 |  \frac{7}{12}\pi  |  \frac{\sqrt{6}-\sqrt{2}}{4}  | \frac{\sqrt{2}-\sqrt{6}}{4} | -2-\sqrt{3} | \sqrt{3}-2 |
| 108 |  \frac{3}{5}  |  \frac{\sqrt{10+2\sqrt{5}}}{4}  | \frac{1-\sqrt{5}}{4} | -\sqrt{5+2\sqrt{5}} | -\frac{\sqrt{25-10\sqrt{5}}}{5} |
| 112°30' |  \frac{5}{8}\pi  |  \frac{\sqrt{2+\sqrt{2}}}{2}  | -\frac{\sqrt{2-\sqrt{2}}}{2} | -1-\sqrt{2} | 1-\sqrt{2} |
| 120 |  \frac{2}{3}\pi  |  \frac{\sqrt{3}}{2}  | -\frac{1}{2} | -\sqrt{3} | -\frac{\sqrt{3}}{3} |
| 126 |  \frac{7}{10}\pi  |  \frac{\sqrt{5}+1}{4}  | -\frac{\sqrt{10-2\sqrt{5}}}{4} | -\sqrt{5-2\sqrt{5}} | -\frac{\sqrt{25+10\sqrt{5}}}{5} |
| 135 |  \frac{3}{4}\pi  |  \frac{\sqrt{2}}{2}  | -\frac{\sqrt{2}}{2} | -1 | -1 |
|  144 |  \frac{4}{5}\pi   |  \frac{\sqrt{10-2\sqrt{5}}}{4}   | -\frac{\sqrt{5}+1}{4}  |  -\frac{\sqrt{25+10\sqrt{5}}}{5} |  -\frac{\sqrt{25+10\sqrt{5}}}{5} |
|  150 |   \frac{5}{6}\pi  |   \frac{1}{2}  | -\frac{\sqrt{3}}{2} | -\frac{\sqrt{3}}{3}  |  -\sqrt{3} |
| 157°30' | \frac{7}{8}\pi |   \frac{\sqrt{2-\sqrt{2}}}{2}  | -\frac{\sqrt{2+\sqrt{2}}}{2} | 1-\sqrt{2} | -\sqrt{2}-1  |
| 162 | \frac{9}{10}\pi |   \frac{\sqrt{5}-1}{4}  | -\frac{\sqrt{10+2\sqrt{5}}}{4} | -\frac{\sqrt{25-10\sqrt{5}}}{5} | -\sqrt{5+2\sqrt{5}}  |
| 165 | \frac{11}{12}\pi |   \frac{\sqrt{5}-\sqrt{2}}{4}  | -\frac{\sqrt{6}+\sqrt{2}}{4} | \sqrt{3}-2 | -\sqrt{3}-2  |
| 180 | \pi |   0  | -1 | 0 | \pm\infty  |
| 195 | \frac{13}{12}\pi |   \frac{\sqrt{2}-\sqrt{6}}{4}  | -\frac{\sqrt{6}+\sqrt{2}}{4} | 2-\sqrt{3} | 2+\sqrt{3}  |
| 198 | \frac{11}{10}\pi |   \frac{1-\sqrt{5}}{4}  | -\frac{\sqrt{10+2\sqrt{5}}}{4} | \frac{\sqrt{25-10\sqrt{5}}}{5} | \sqrt{5+2\sqrt{5}}  |
| 202°30' | \frac{9}{8}\pi |   \frac{1-\sqrt{5}}{4}  | -\frac{\sqrt{2+\sqrt{2}}}{2} | \sqrt{2}-1 | \sqrt{2}+1  |
| 210 | \frac{7}{6}\pi |   -\frac{1}{2}  | -\frac{\sqrt{3}}{2} | \frac{\sqrt{3}}{3} | \sqrt{3}  |
| 216 | \frac{6}{5}\pi |   -\frac{\sqrt{10-2\sqrt{5}}}{4}  | -\frac{\sqrt{5}+1}{4} | \frac{\sqrt{25+10\sqrt{5}}}{5} | \sqrt{5-2\sqrt{5}}  |
| 225 | \frac{5}{4}\pi |   -\frac{\sqrt{2}}{2}  | -\frac{\sqrt{2}}{2} | 1 | 1  |
| 234 | \frac{13}{10}\pi |   -\frac{\sqrt{5}+1}{4}  | -\frac{\sqrt{10-2\sqrt{5}}}{4} | \sqrt{5-2\sqrt{5}} | \frac{\sqrt{25+10\sqrt{5}}}{5}  |
| 240 | \frac{4}{3}\pi |   -\frac{\sqrt{3}}{2}  | -\frac{1}{2} | \sqrt{3} | \frac{\sqrt{3}}{3}  |
| 247°30' | \frac{11}{8}\pi |   -\frac{\sqrt{2+\sqrt{2}}}{2}  | -\frac{\sqrt{2-\sqrt{2}}}{2} | \sqrt{2}+1 | \sqrt{2}-1  |
| 252 | \frac{7}{5}\pi |   -\frac{\sqrt{10+2\sqrt{5}}}{4}  | \frac{1-\sqrt{5}}{4} | \sqrt{5+2\sqrt{5}} | \frac{\sqrt{25-10\sqrt{5}}}{5}  |
| 255 | \frac{17}{12}\pi |   -\frac{\sqrt{6}+\sqrt{2}}{4}  | \frac{\sqrt{2}-\sqrt{6}}{4} | 2+\sqrt{3} | 2-\sqrt{3}  |
| 270 | \frac{3}{2}\pi |   -1  | 0 | \pm \infty | 0  |
| 285 | \frac{19}{12}\pi |   -\frac{\sqrt{6}+\sqrt{2}}{4}  | \frac{\sqrt{6}-\sqrt{2}}{4} | -2-\sqrt{3} | \sqrt{3}-2  |
| 288 | \frac{8}{5}\pi |   \frac{\sqrt{10+2\sqrt{5}}}{4}  | \frac{\sqrt{5}-1}{4} | -\sqrt{5+2\sqrt{5}} | -\frac{\sqrt{25-10\sqrt{5}}}{5}  |
| 292°30' | \frac{13}{8}\pi |   -\frac{\sqrt{2+\sqrt{2}}}{2}  | \frac{\sqrt{2-\sqrt{2}}}{2} | -1-\sqrt{2} | 1-\sqrt{2}  |
| 300 | \frac{5}{3}\pi |   -\frac{\sqrt{3}}{2}  | \frac{1}{2} | -\sqrt{3} | -\frac{\sqrt{3}}{3}  |
| 306  | \frac{17}{10}\pi |   -\frac{\sqrt{5}+1}{4}  | \frac{\sqrt{10-2\sqrt{5}}}{4} | -\sqrt{5-2\sqrt{5}} | -\frac{\sqrt{25+10\sqrt{5}}}{5}  |
|  315 | \frac{7}{4}\pi |   -\frac{\sqrt{2}}{2}  | \frac{\sqrt{2}}{2} | -1 | -1  |
|  324 | \frac{9}{5}\pi |   -\frac{\sqrt{10-2\sqrt{5}}}{4}  | \frac{\sqrt{5}+1}{4} | -\frac{\sqrt{25+10\sqrt{5}}}{5} | -\sqrt{5-2\sqrt{5}}  |
| 330  | \frac{11}{6}\pi |   -\frac{1}{2}  | \frac{\sqrt{3}}{2} | -\frac{\sqrt{3}}{3} | -\sqrt{3}  |
| 337°30'  | \frac{15}{8}\pi |   -\frac{\sqrt{2-\sqrt{2}}}{2}  | \frac{\sqrt{2+\sqrt{2}}}{2} | 1-\sqrt{2} | -1-\sqrt{2}  |
| 342  | \frac{19}{10}\pi |   \frac{1-\sqrt{5}}{4}  | \frac{\sqrt{10+2\sqrt{5}}}{4} | -\frac{\sqrt{25-10\sqrt{5}}}{5} | -\sqrt{5+2\sqrt{5}}  |
| 345  | \frac{23}{12}\pi |   \frac{\sqrt{2}-\sqrt{6}}{4}  | \frac{\sqrt{2}+\sqrt{6}}{4} | \sqrt{3}-2 | -2-\sqrt{3}  |
| 360  | 2\pi |   0  | 1 | 0 | \pm\infty  |