

UNIT CIRCLE REFERENCE

Trigonometric Values & Coordinates

[Diagram Area]

| DEG | RAD | SIN | COS | TAN |
|-----|----------|--------------|---------------|---------------|
| 0 | 0 | 0 | 1 | 0 |
| 30 | $\pi/6$ | $1/2$ | $\sqrt{3}/2$ | $\sqrt{3}/3$ |
| 45 | $\pi/4$ | $\sqrt{2}/2$ | $\sqrt{2}/2$ | 1 |
| 60 | $\pi/3$ | $\sqrt{3}/2$ | $1/2$ | $\sqrt{3}$ |
| 90 | $\pi/2$ | 1 | 0 | undef |
| 120 | $2\pi/3$ | $\sqrt{3}/2$ | $-1/2$ | $-\sqrt{3}$ |
| 135 | $3\pi/4$ | $\sqrt{2}/2$ | $-\sqrt{2}/2$ | -1 |
| 150 | $5\pi/6$ | $1/2$ | $-\sqrt{3}/2$ | $-\sqrt{3}/3$ |
| 180 | π | 0 | -1 | 0 |

| QUADRANT | I (+,+) | II (-,+) | III (-,-) | IV (+,-) |
|-----------------|---------|-----------|-----------|-----------|
| Positive | All | Sin / Csc | Tan / Cot | Cos / Sec |