

Chapter 4

Trigonometry

Angles: α, β

Real numbers (coordinates of a point): x, y

Whole number: k

4.1 Radian and Degree Measures of Angles

362. $1 \text{ rad} = \frac{180^\circ}{\pi} \approx 57^\circ 17' 45''$

363. $1^\circ = \frac{\pi}{180} \text{ rad} \approx 0.017453 \text{ rad}$

364. $1' = \frac{\pi}{180 \cdot 60} \text{ rad} \approx 0.000291 \text{ rad}$

365. $1'' = \frac{\pi}{180 \cdot 3600} \text{ rad} \approx 0.000005 \text{ rad}$

366.

Angle (degrees)	0	30	45	60	90	180	270	360
Angle (radians)	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π