

Examples Radians Degree Conversions

Using the Conversion Factors

1. Convert 78° to radians.

$$R \approx .017 D$$

$$\approx .017(78) \approx 1.36 \text{ radians}$$

2. Convert .445 radians to degrees

$$D \approx 57 R$$

$$\approx 57(.445) \approx 25^\circ$$

3. Convert 60° to radians in terms of π

$$\frac{D}{180} = \frac{R}{\pi}$$

$$\frac{60}{180} = \frac{R}{\pi}; R = \frac{\pi}{3}$$

4. Convert $5\pi/6$ to degrees

$$\frac{D}{180} = \frac{R}{\pi}$$

$$\frac{D}{180} = \frac{5\pi/6}{\pi}$$

$$D = \frac{(5\pi/6)180}{\pi} = 150^\circ$$