## Examples Radians Degree Conversions

Using the Conversion Factors

1. Convert $78^{\circ}$ to radians.

$$
\begin{aligned}
R & \approx .017 \mathrm{D} \\
& \approx .017(78) \approx 1.36 \text { radians }
\end{aligned}
$$

2. Convert . 445 radians to degrees

$$
\begin{aligned}
D & \approx 57 R \\
& \approx 57(.445) \approx 25^{\circ}
\end{aligned}
$$

3. Convert $60^{\circ}$ to radians in terms of $\pi$

$$
\begin{gathered}
\frac{D}{180}=\frac{R}{\pi} \\
\frac{60}{180}=\frac{R}{\pi} ; R=\frac{\pi}{3}
\end{gathered}
$$

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

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

