Name _____ Date _____

Converting Angle Measurements

On the unit circle, the angles are given in degrees. Another way to measure an angle is with radians. π Radians = 180°. The two unit conversions are as follows:

radians to degrees	degrees to radians
$\frac{180°}{\pi}$	$\frac{\pi}{180°}$

Convert the angle from degrees to radians, leaving your answer as a fraction.

Example: 90° Simply multiply. $\frac{90°}{1} \times \frac{\pi}{180°} = \frac{90°\pi}{180°} = \frac{1}{2}\pi$

1. 310°
2. 150°
3. 30°
4. 420°
5. 120°
6. 350°

Convert from radians to degrees.

Example: $\frac{3}{2}\pi$ Simply multiply. $\frac{3}{2}\pi \times \frac{180°}{\pi} = \frac{540°}{2} = 270°$

1. $\frac{5}{4}\pi$
2. 4π
3. $\frac{7}{6}\pi$
4. $\frac{1}{6}\pi$
5. $\frac{7}{4}\pi$
6. $\frac{9}{2}\pi$

0-7424-1789-1 Algebra II