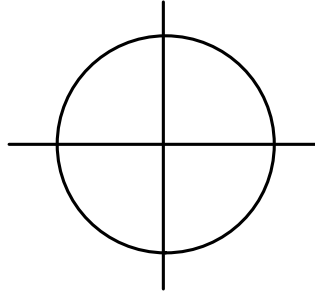


Converting Angle Measure Notes

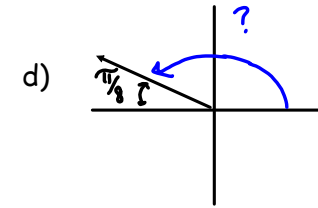
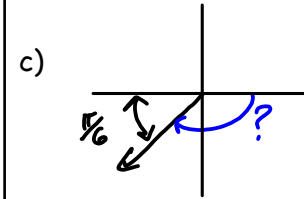
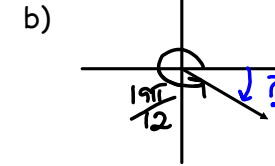
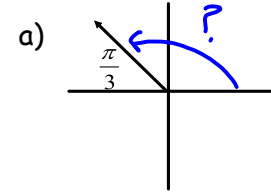
Converting Angle Measure

A **radian** is just another way to measure an angle. A radian is associated with the radius length of a circle.

A circle has **360 degrees** or **2π radians**, which is approximately 6.28 radians.



Examples: Find the measure of each angle.



Converting Angle Measures

degrees to radians

$$r = d \cdot \frac{\pi}{180^\circ}$$

radians to degrees

$$d = r \cdot \frac{180^\circ}{\pi}$$

We always leave π as π when converting ...
do NOT evaluate for π !

Examples:

a) Convert 30° to radians.

b) Convert $\frac{4\pi}{9}$ to degrees.