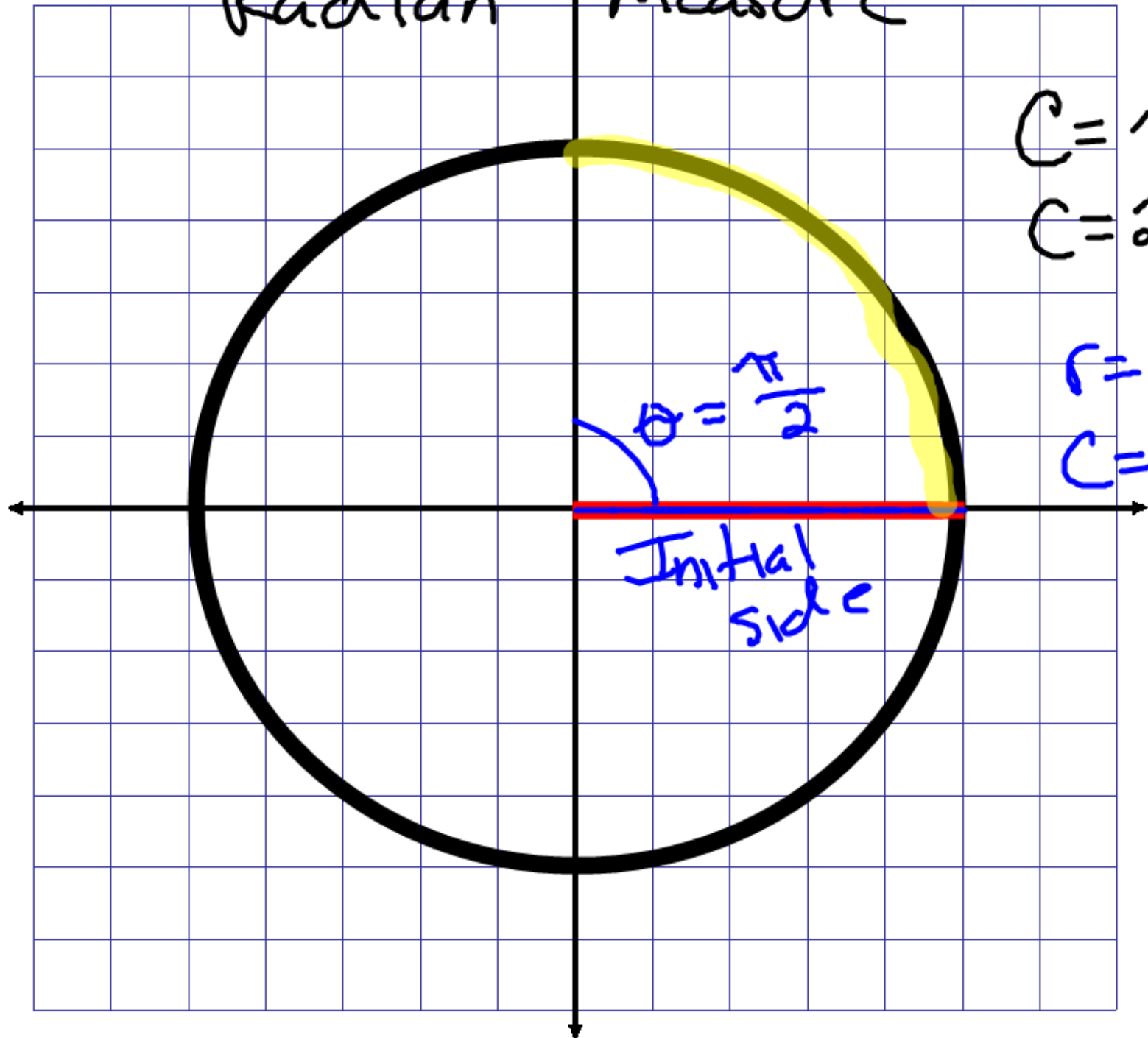


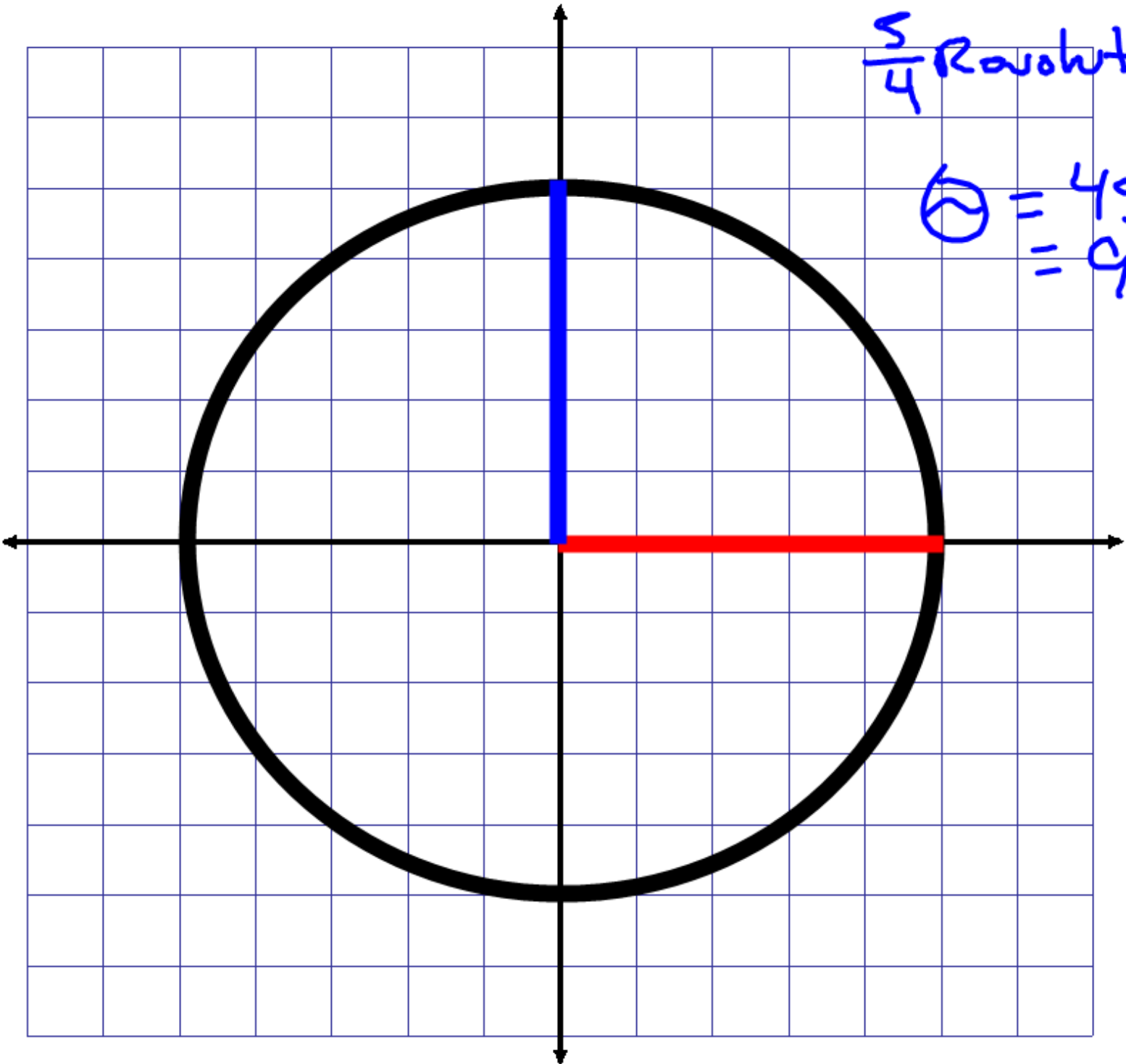
# Radian Measure



$$C = \pi d$$
$$C = 2r\pi$$

$$r = 1$$
$$C = 2\pi$$

$0^\circ = 0 \text{ or } 2\pi$	$0$
$90^\circ = \frac{\pi}{2}$	$\frac{1}{4}$
$180^\circ = \pi$	$\frac{1}{2}$
$270^\circ = \frac{3\pi}{2}$	$\frac{3}{4}$
$360^\circ = 0 \text{ or } 2\pi$	$1$



$\frac{3}{4}$  Revolutions

$\odot = 450^\circ$   
 $= 90^\circ$

$$\frac{\sqrt{2}}{2} + \frac{2\pi}{1} = \frac{5\pi}{2}$$

$$\frac{\sqrt{2}}{2} = \frac{5\pi}{2}$$

$$\frac{\sqrt{2}}{2} + \frac{4\pi}{2} = \frac{5\pi}{2} + \frac{4\pi}{2} = \frac{9\pi}{2}$$

$$\frac{\sqrt{2}}{2} \rightarrow \frac{5\pi}{2} \rightarrow \frac{9\pi}{2} \rightarrow \frac{-3\pi}{2}$$

$$\frac{\sqrt{2}}{2} - 2\pi = \frac{\sqrt{2}}{2}, \quad \frac{4\pi}{2} = \frac{-3\pi}{2}$$

$$\frac{13\pi}{6} \rightarrow \frac{\pi}{6}$$

$$0 \rightarrow 2\pi$$

$$\frac{13}{6} - \frac{2}{1} = \frac{13}{6} - \frac{12}{6} = \frac{1}{6}$$

# Degree $\rightarrow$ Radians

$$90^\circ = \frac{\pi}{2}$$

$$\frac{1}{4} \cdot 2\pi = \frac{\pi}{2}$$

$$\frac{90}{360} \cdot 2\pi$$

$$\frac{X}{360} \cdot 2\pi = \frac{2 \times \pi}{360}$$

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

$$D = 135^\circ$$

$$R = \frac{3\pi}{4}$$

$$\frac{135}{180} \pi$$

Radians  $\rightarrow$  Degrees

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

$$\frac{3\pi}{4} \cdot \frac{180}{\pi} = 135^\circ$$

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

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