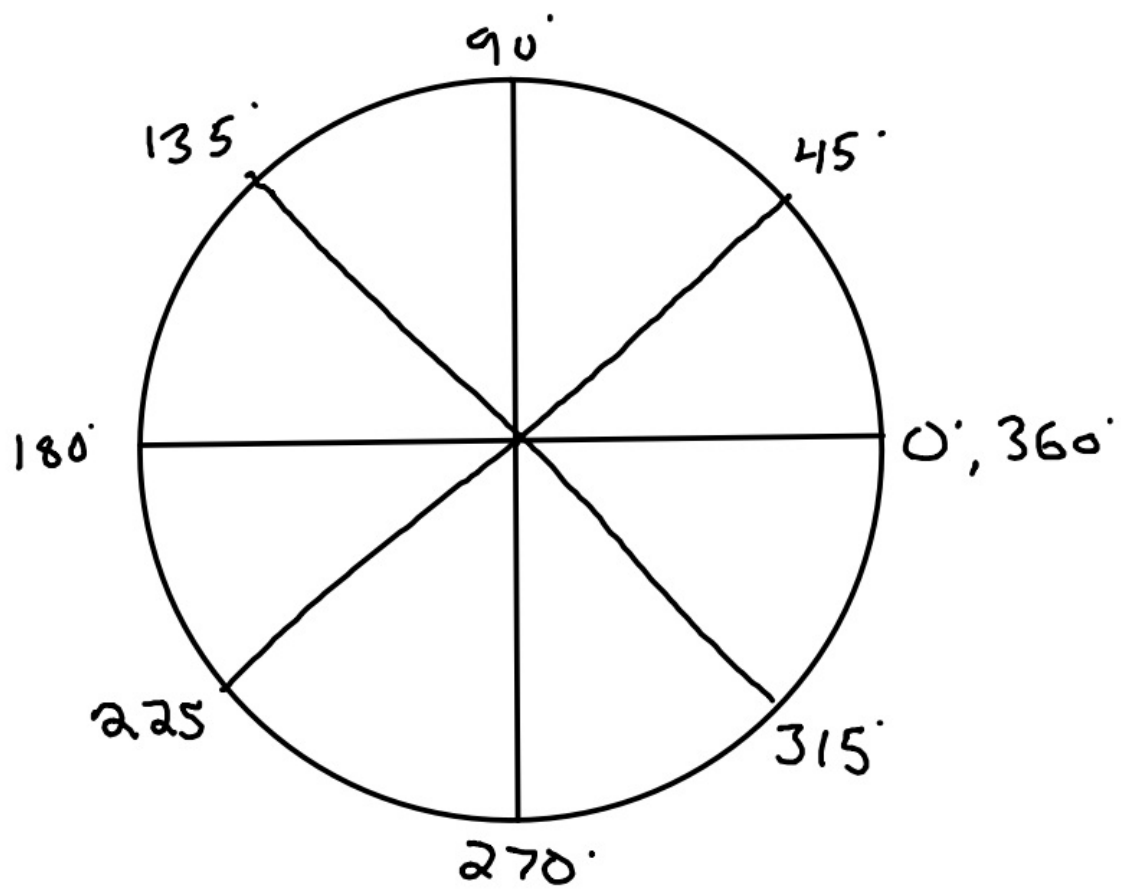
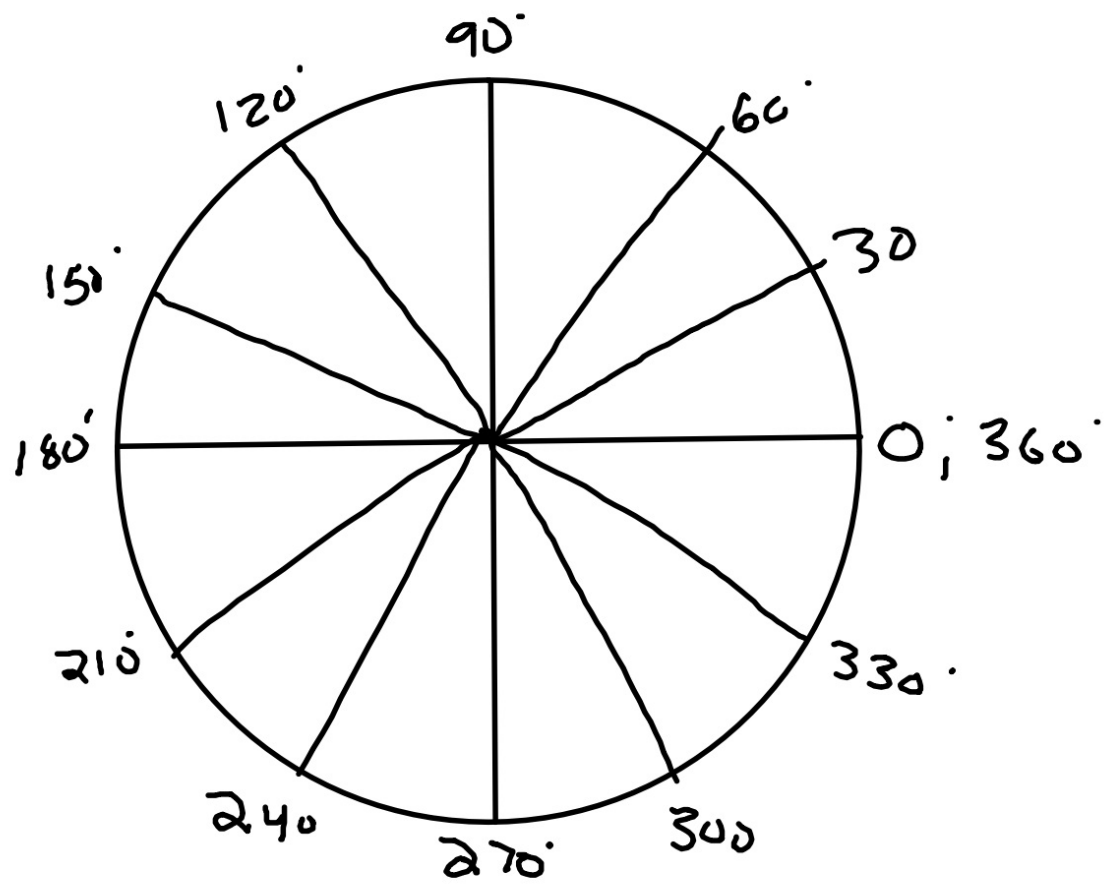
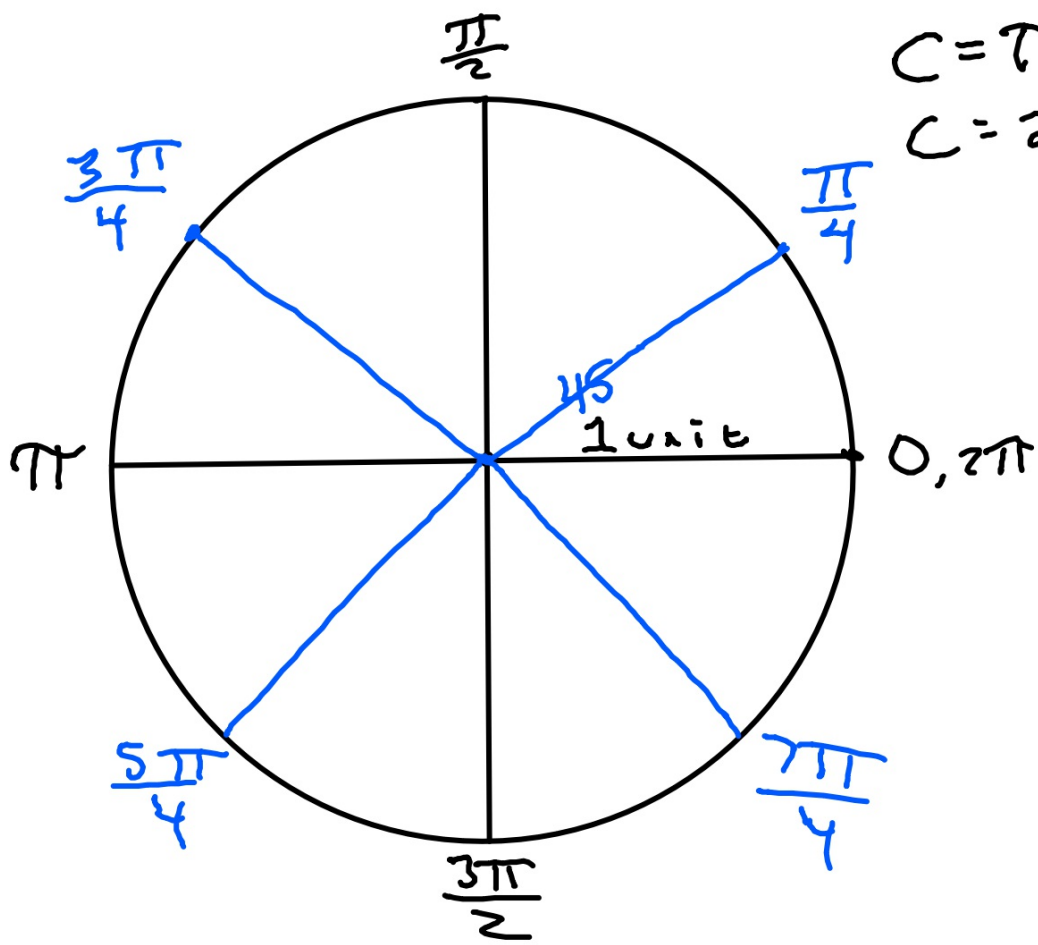


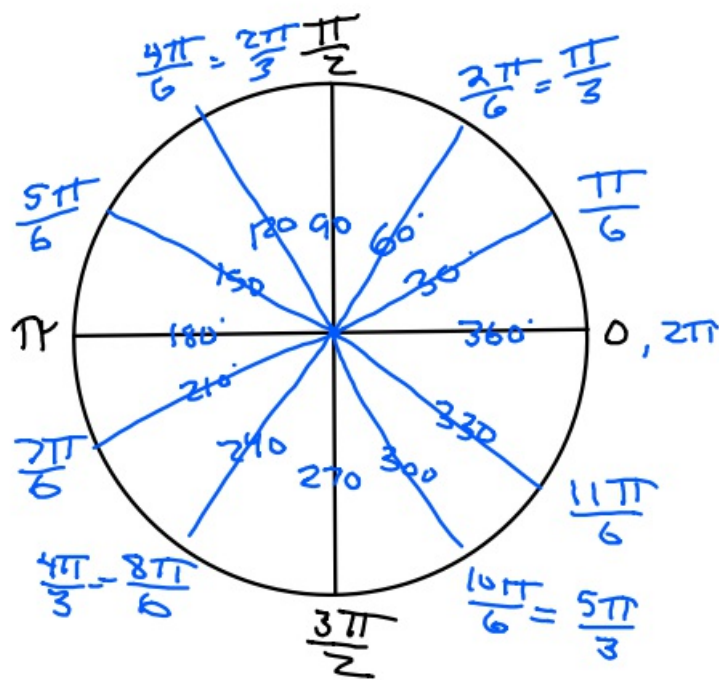
2-26-20 1st Trig







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



$$\pi \text{ radians} = 180^\circ$$

① Convert 40° to radians.

$$\frac{40}{1} \cdot \frac{\pi}{180} = \frac{40\pi}{180} = \frac{2\pi}{9}$$

② Convert $\frac{\pi}{10}$ to degrees.

$$\frac{\pi}{10} \cdot \frac{180^\circ}{\pi} = \frac{180^\circ}{10} = 18^\circ$$

③ Convert $\frac{\pi}{8}$ to degrees.

$$\frac{\pi}{8} \cdot \frac{180^\circ}{\pi} = \frac{180^\circ}{8} = 22.5^\circ$$

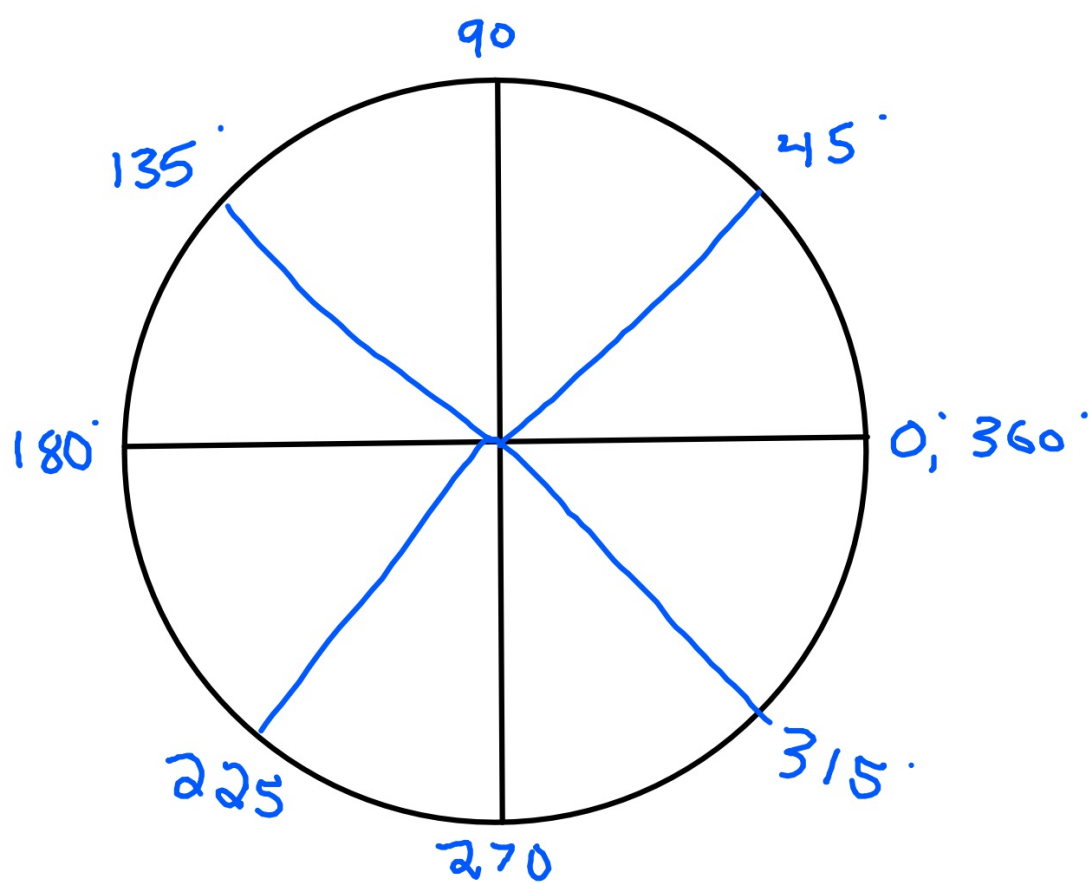
④ Convert 210° to radians.

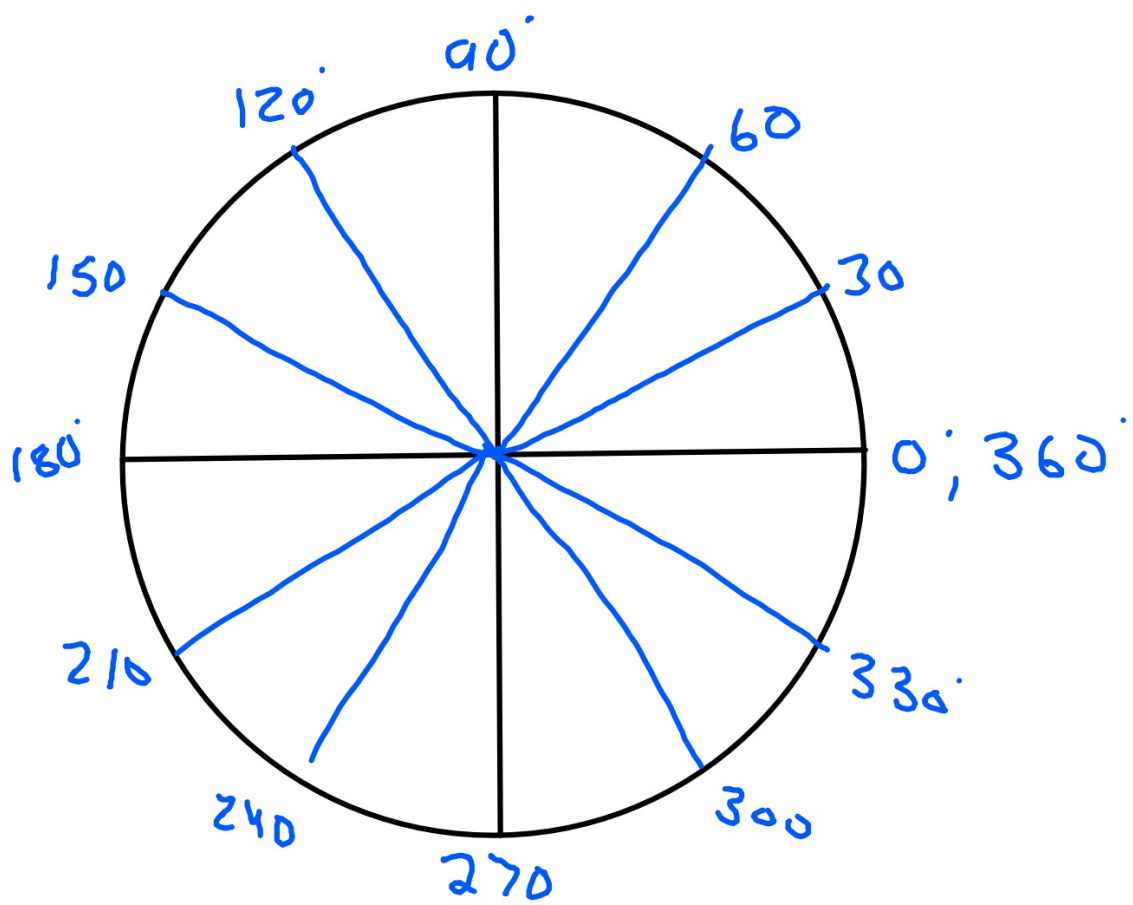
$$\frac{210^\circ}{1} \cdot \frac{\pi}{180^\circ} = \frac{210\pi}{180} = \frac{7\pi}{6}$$

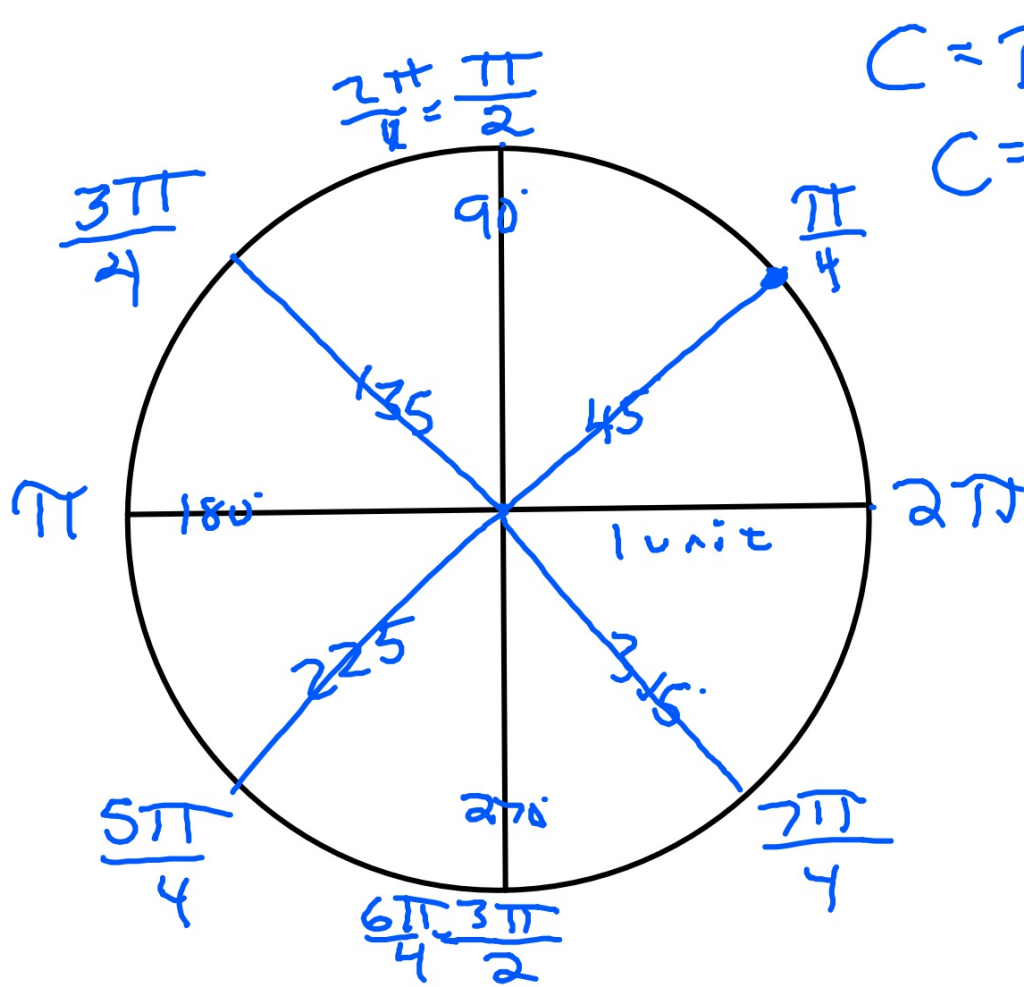
⑤ Convert 3 radians to degrees.

$$\frac{3}{1} \cdot \frac{180^\circ}{\pi} = \frac{540}{\pi} \approx 171.8^\circ$$

2-26-20 3rd Trig

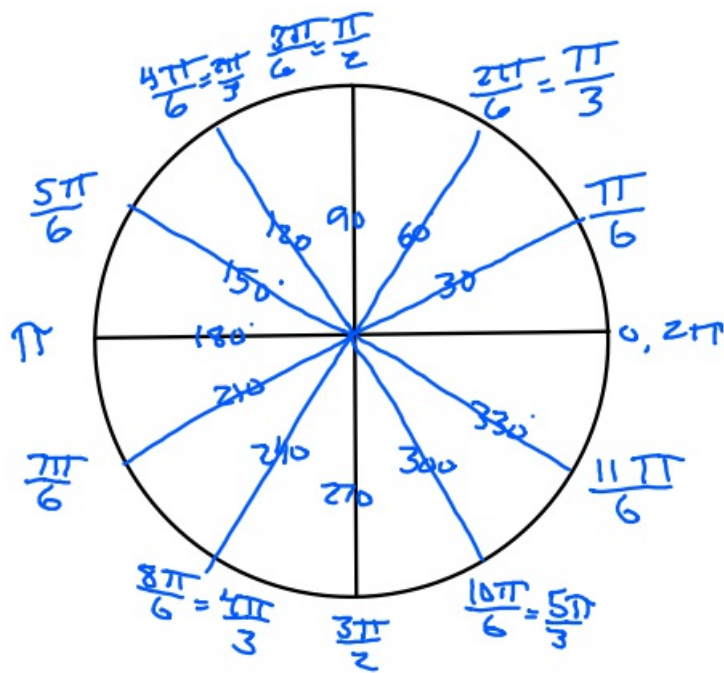






$$C = \pi \cdot d$$

$$C = 2 \cdot \pi$$



$$180^\circ = \pi \text{ radians}$$

$$\frac{\pi \text{ radians}}{180^\circ} = \frac{180^\circ}{\pi \text{ radians}} = 1$$

① Convert 40° to radians

$$\frac{40^\circ}{1} \cdot \frac{\pi}{180^\circ} = \frac{40\pi}{180} = \frac{2\pi}{9}$$

$$\frac{40}{180} \left(\begin{array}{c} \div 10 \\ \div 10 \end{array} \right) = \frac{4}{18} \div \frac{2}{2} = \frac{2}{9}$$

② Convert 100° to radians.

$$\frac{100^\circ}{1} \cdot \frac{\pi}{180^\circ} = \frac{100\pi}{180} = \frac{5\pi}{9}$$

③ Convert $\frac{\pi}{9}$ to degrees.

$$\frac{\cancel{\pi}}{9} \cdot \frac{180^\circ}{\cancel{\pi}} = \frac{180^\circ}{9} = 20^\circ$$

④ Convert $\frac{2\pi}{3}$ to degrees.

$$\frac{\cancel{2\pi}}{3} \cdot \frac{180^\circ}{\cancel{\pi}} = \frac{360^\circ}{3} = 120^\circ$$

⑤ Convert 3^{radians} to degrees

$$\frac{3}{1} \cdot \frac{180^\circ}{\pi} = \frac{540^\circ}{\pi} \approx 171.9^\circ$$