

Practice #21 Alg 2 Coterminal $\angle$'s & Radian Measure Thursday, April 23, 20201. Find a coterminal angle so that the measure falls between 0° and $360^\circ \rightarrow 0^\circ \leq \theta \leq 360^\circ$

a) $\theta = 875^\circ$

$$875 - 720 = \boxed{155^\circ}$$

b) $\theta = -530^\circ$

$$-530 + 720 = \boxed{190^\circ}$$

c) $\theta = 1503^\circ$

$$1503 - 1080 = 423^\circ$$
$$423 - 360 = \boxed{63^\circ}$$

Coterminal $\angle = \boxed{155^\circ}$

Coterminal $\angle = \boxed{190^\circ}$

Coterminal $\angle = \boxed{63^\circ}$

2. Convert each angle into degrees. Round to the nearest hundredth as necessary.

a) $\theta = \frac{7\pi}{10} \cdot \frac{180^\circ}{\pi}$

$$\frac{7\pi}{10} \rightarrow 126^\circ$$

b) $\theta = \frac{5\pi}{3} \cdot \frac{180^\circ}{\pi}$

$$\frac{5\pi}{3} \rightarrow 300^\circ$$

3. Convert each angle into radians. Leave your answer as a fraction in reduced form and in terms of π .

a) $\theta = 420^\circ \cdot \frac{\pi}{180^\circ}$

$$420^\circ \rightarrow \frac{7\pi}{3}$$

b) $\theta = 100^\circ \cdot \frac{\pi}{180^\circ}$

$$100^\circ \rightarrow \frac{5\pi}{9}$$