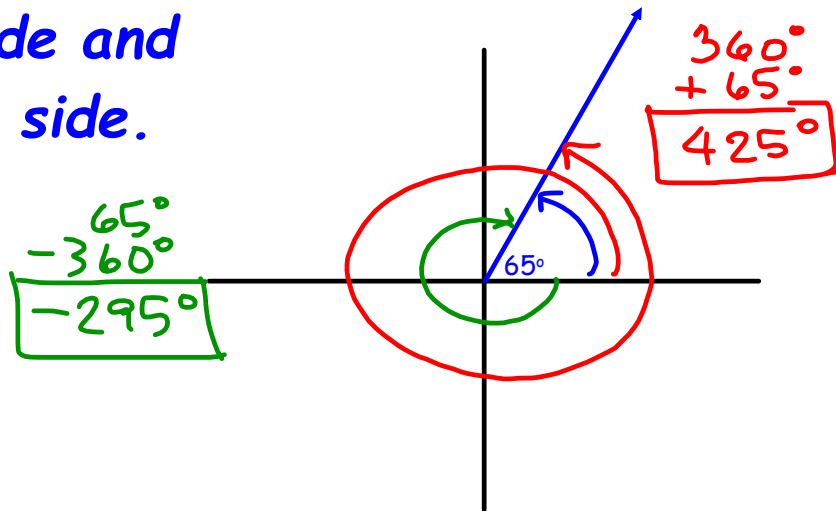


Coterminal Angles

Two angles are **coterminal** if ... **they have the same initial side and terminal side.**



Find two coterminal angles (one positive and one negative) for each angle.

a) 390°

$$\begin{array}{r} 390^\circ \\ -360^\circ \\ \hline \end{array} \boxed{30^\circ}$$

$$\begin{array}{r} 30^\circ \\ -360^\circ \\ \hline \end{array} \boxed{-330^\circ}$$

b) $-\frac{7\pi}{3}$ $2\pi = \frac{6\pi}{3}$

$$-\frac{7\pi}{3} + \frac{6\pi}{3} = \boxed{-\frac{\pi}{3}}$$

$$-\frac{\pi}{3} + \frac{6\pi}{3} = \boxed{\frac{5\pi}{3}}$$

c) $\frac{17\pi}{6}$ $2\pi = \frac{12\pi}{6}$

$$\frac{17\pi}{6} - \frac{12\pi}{6} = \boxed{\frac{5\pi}{6}}$$

$$\frac{5\pi}{6} - \frac{12\pi}{6} = \boxed{-\frac{7\pi}{6}}$$