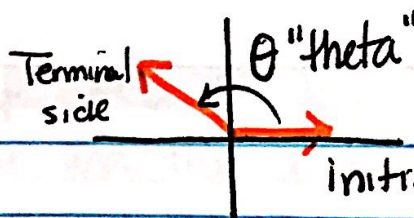
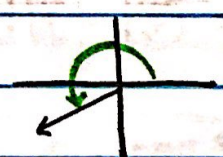
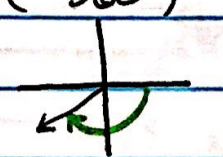
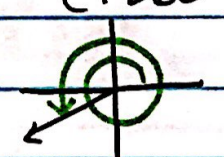
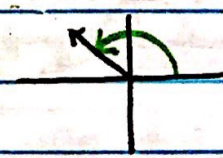
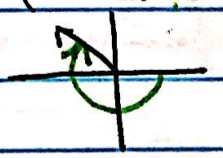
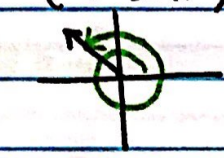
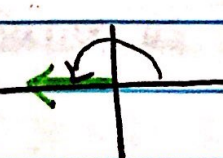
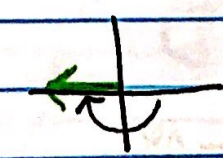



Standard Position: 

Co-terminal angles: 2 angles with the same initial & terminal

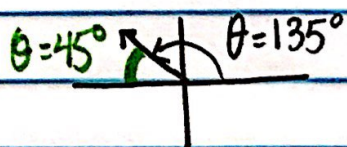
ex: Find 2 coterminal angles

Given	NCA	PCA
(a) $\theta = 210^\circ$ 	$\theta = -150^\circ$ (-360°) 	$\theta = 570^\circ$ $(+360^\circ)$ 
(b) $\theta = \frac{3\pi}{4}$ 	$\theta = -\frac{5\pi}{4}$ (-2π) 	$\theta = \frac{11\pi}{4}$ $(+2\pi)$ 
(c) $\theta = 180^\circ$ 	$\theta = -180^\circ$ 	$\theta = 540^\circ$ 

Reference Angles: a positive acute angle formed by the terminal side and the x-axis

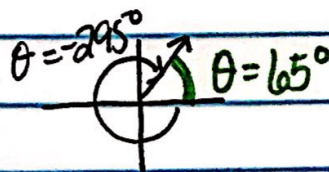
ex: find the reference angle

(a) $\theta = 135^\circ$



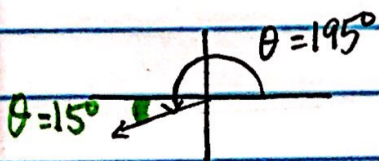
$$180 - 135 = 45^\circ$$

(b) $\theta = -295^\circ$



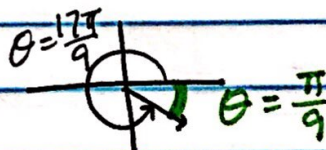
$$360^\circ - 295^\circ = 65^\circ$$

(c) $\theta = 555^\circ$
same as $\theta = 195^\circ$



$$195 - 180 = 15^\circ$$

(d) $\theta = \frac{17\pi}{9}$



$$2\pi - \frac{17\pi}{9} = \frac{\pi}{9}$$

(e) $\theta = -\frac{9\pi}{7}$
same as $\theta = \frac{5\pi}{7}$



$$\pi - \frac{5\pi}{7} = \frac{2\pi}{7}$$

