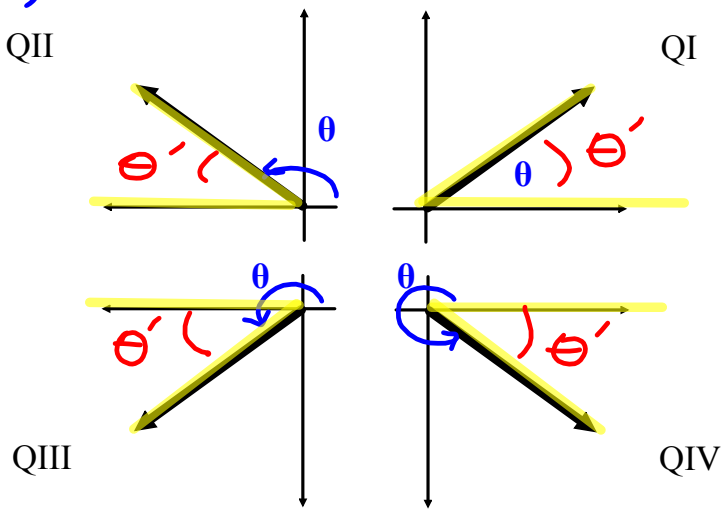
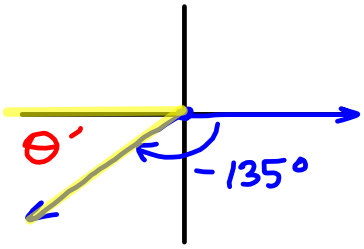
Reference Angles $0° < \theta' < 90°$

A reference angle (θ') is ... *the acute angle formed by the terminal side of the original angle (θ) and the horizontal axis.*



Find the reference angle for each angle.

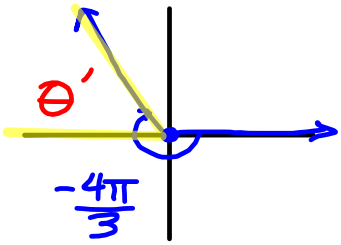
a) $-135°$



$180° - 135°$

$45° = \theta'$

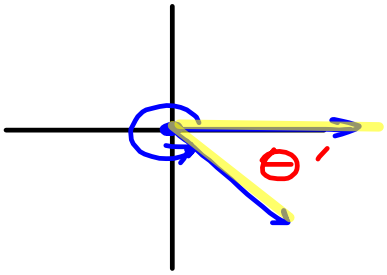
b) $-\frac{4\pi}{3} \approx -1.3\pi$



$\frac{4\pi}{3} - \frac{3\pi}{3}$

$\frac{\pi}{3} = \theta'$

c) $\frac{7\pi}{4} = 1.75\pi$



$\frac{4 \cdot 2\pi}{4} - \frac{7\pi}{4}$

$\frac{\pi}{4} = \theta'$