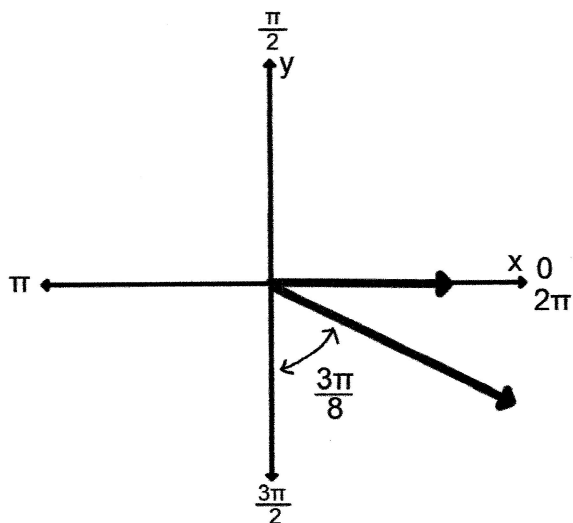


1. State in which quadrant the terminal sides of each angle will be located.

a) $\theta = 975^\circ$

b) $\theta = -740^\circ$

2. State a Positive and Negative measure, in radians, for the angle in Standard Position shown.



POS:

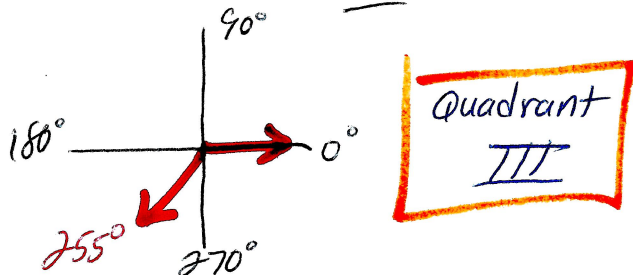
NEG:

1. State in which quadrant the terminal sides of each angle will be located.

a) $\theta = 975^\circ$

1st Find a coterminal between 0° & 360°

$$975^\circ - 720^\circ = 255^\circ$$

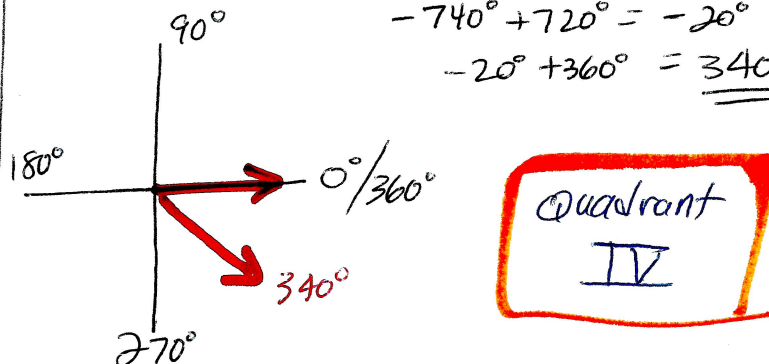


b) $\theta = -740^\circ$

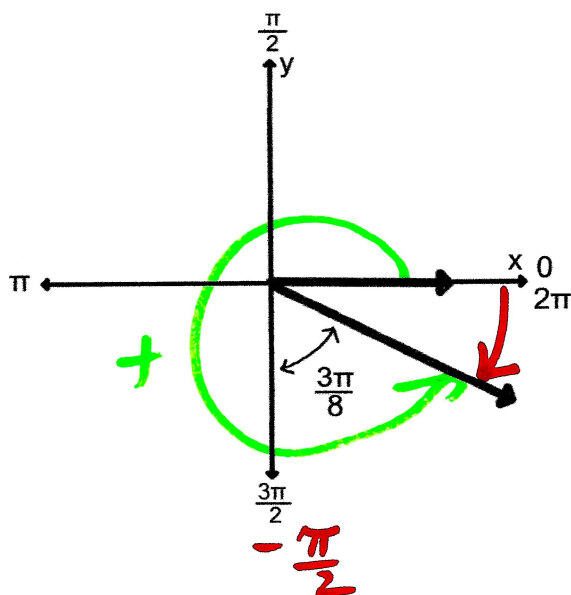
1st find a coterminal between 0° & 360°

$$-740^\circ + 720^\circ = -20^\circ$$

$$-20^\circ + 360^\circ = 340^\circ$$



2. State a Positive and Negative measure, in radians, for the angle in Standard Position shown.



POS:

$\frac{3\pi}{8}$ past $\frac{3\pi}{2}$

$$\theta = \frac{3\pi}{2} + \frac{3\pi}{8}$$

$$= \frac{3\pi}{2} \cdot \frac{4}{4} + \frac{3\pi}{8}$$

$$= \frac{12\pi}{8} + \frac{3\pi}{8}$$

$$\theta = \frac{15\pi}{8}$$

NEG:

$\frac{3\pi}{8}$ short of $\frac{\pi}{2}$ in a neg. direction

$$\theta = - \left(\frac{\pi}{2} - \frac{3\pi}{8} \right)$$

$$= - \left(\frac{\pi}{2} \cdot \frac{4}{4} - \frac{3\pi}{8} \right)$$

$$= - \left(\frac{4\pi}{8} - \frac{3\pi}{8} \right)$$

$$\theta = - \frac{\pi}{8}$$