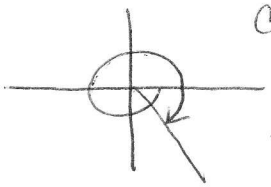
TRIG FUNCTIONS– PART 2 (1.5) NAME_____

1. Sketch the angle θ in standard position. Then find the exact values for $\cos\theta$ and $\tan\theta$.

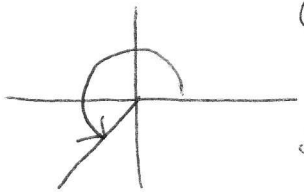
A. $\theta = \frac{-7\pi}{3}$



$\cos\theta = \frac{1}{2}$

$\tan\theta = -\sqrt{3}$

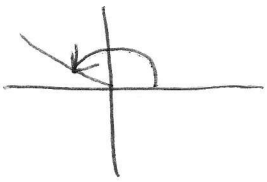
B. $\theta = \frac{5\pi}{4}$



$\cos\theta = -\frac{\sqrt{2}}{2}$

$\tan\theta = 1$

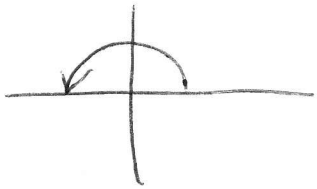
C. $\theta = \frac{5\pi}{6}$



$\cos\theta = -\frac{\sqrt{3}}{2}$

$\tan\theta = -\frac{1}{\sqrt{3}}$

D. $\theta = \pi$



$\cos\theta = -1$

$\tan\theta = 0$

2. Solve for the angle so that $0 \le angle < 2\pi$. In each case there are two solutions.

A. $\sin\theta = \frac{-\sqrt{3}}{2}$ $\theta = \frac{4\pi}{3}, \frac{5}{3}\pi$

B. $\tan\beta = 0$ $\theta = 0, \pi$

C. $\sec\alpha$ is undefined $\theta = \frac{\pi}{2}, \frac{3}{2}\pi$