ALG III 4/26/18 Name:_____

Six Trigonometric Functions Practice

1. Find the following trig ratios:

a. $\cot\frac{\pi}{3}$ b. $\tan\frac{15\pi}{4}$ c. $\sec\left(-\frac{\pi}{4}\right)$

d. $\csc 225°$ e. $\sin\frac{8\pi}{3}$ f. $\cos 870°$

2. Suppose that $\sin\theta = \frac{1}{4}$ and $\frac{\pi}{2} \le \theta \le \pi$. Find the other 5 trigonometric ratios.

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$

3. Suppose that θ is in the interval $\pi \le \theta \le \frac{3\pi}{2}$ and $\cos\theta = -\frac{3}{5}$. Find the other 5 trigonometric ratios.

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$

4. Supposed that $\csc\theta = -\frac{8}{3}$ and $\frac{3\pi}{2} \le \theta < 2\pi$. Find the other five trigonometric functions.

$\sin\theta =$ $\csc\theta =$

$\cos\theta =$ $\sec\theta =$

$\tan\theta =$ $\cot\theta =$