UNIT 1A: UNIT CIRCLE TEST REVIEW WORKSHEET

Name: _____ Date: _____ Period: _____

For #1-2, find all 6 trig functions for:

1.) $\frac{7\pi}{4}$

$\sin\frac{7\pi}{4} =$	$\csc\frac{7\pi}{4} =$
$\cos\frac{7\pi}{4} =$	$\sec\frac{7\pi}{4} =$
$\tan\frac{7\pi}{4} =$	$\cot\frac{7\pi}{4} =$

2.) $\frac{4\pi}{3}$

$\sin\frac{4\pi}{3} =$	$\csc\frac{4\pi}{3} =$
$\cos\frac{4\pi}{3} =$	$\sec\frac{4\pi}{3} =$
$\tan\frac{4\pi}{3} =$	$\cot\frac{4\pi}{3} =$

3.) Find θ if Cos $\theta = \frac{1}{2}$ and θ lies in Quadrant IV.

4.) Re-write the following in degrees:

a.) $\frac{11\pi}{6}$ b.) $\frac{2\pi}{3}$

5.) Evaluate: $\sin\frac{-17\pi}{6}$

6.) What is the reference angle for 240°? Put your answer in degrees and in radians.

7.) Evaluate sin, cos, and tan -150° without a calculator.

8.) Evaluate $\csc\frac{-3\pi}{2}$

9.) Evaluate $\cot\frac{-\pi}{2}$

10.) a.) List two angles coterminal to $-120°$.

b.) Convert all three degree measures above to radians.

c.) Determine the sine, cosine, secant, cosecant, tangent, and cotangent of all three angles above.

EXTRA CREDIT: Find the values of the 6 trig functions of θ with the given constraint:

If $\sin\theta = \frac{3}{8}$ and $\cot\theta$ is negative. *HINT: Use a triangle instead of a unit circle.*

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