Adv Alg

Name _____
Date _____Pd_____

AA5 TRIG (PART I) PRACTICE TEST

*Use of a unit circle, unit circle patterns, and/or graph is NOT permitted on test.
Read the directions. Reduce all fractions. Exact responses should be in terms of π and/or √.

C Level

1. Fill in the table below. Use exact values for radians, cosine, and sine.

DEGREE	RADIANS	COSINE	SINE
0°			
	$\frac{2\pi}{3}$		
225°			
	$\frac{11\pi}{6}$		

2. Convert to degrees or exact radians, as indicated. Reduce fractions.

   a. 115° = _____ radians

   b. $\frac{11\pi}{12}$ = _____degrees

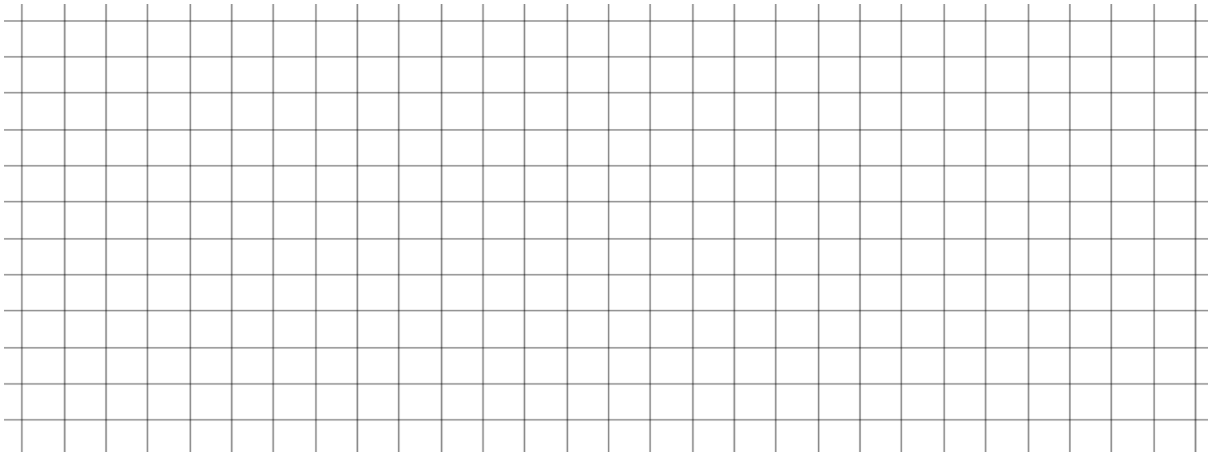
3. Find all solutions for θ in exact radian measure: sin θ = - $\frac{1}{2}$ $(for\ 0 \leq \theta \leq 2\pi)$

4. Find one (+) and one (-) coterminal angle for 104°.

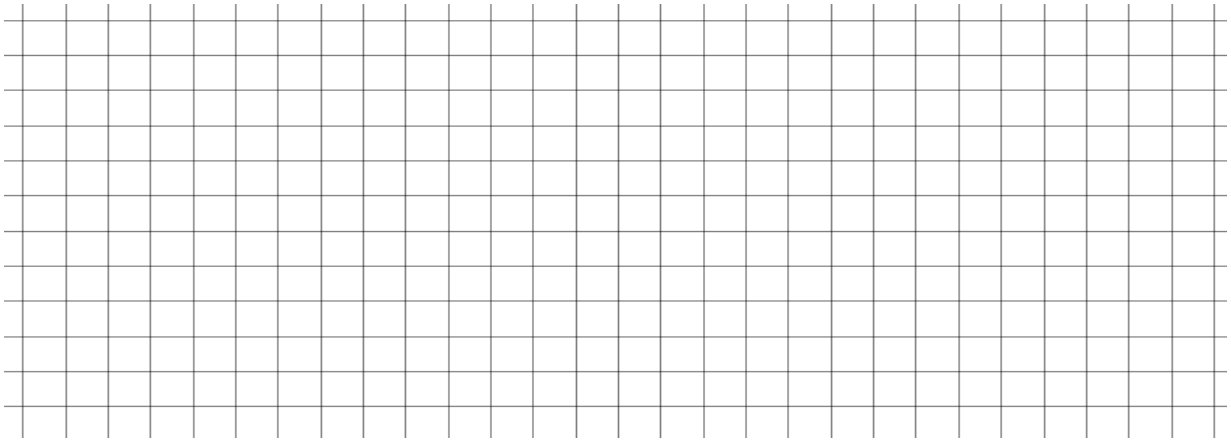
5. Find the reference angle for 240° in degrees.

6. Graph one period/cycle of cosine and sine on separate graphs. **Clearly** label the 5 key coordinate points on each graph.

$y = \sin(\theta)$



$y = \cos(\theta)$



B Level

1. Find the exact value of $\tan\left(-\frac{5\pi}{6}\right)$.

2. Convert -710° to exact radian measure.

3. Find one (+) and one (-) coterminal angle for -780°

4. Find the reference angle for $\frac{4\pi}{3}$ in <u>exact</u> radians.

5. Find all solutions for θ in <u>exact</u> radian measure: $\tan\theta = \sqrt{3}$ $(for\ 0 \leq \theta \leq 2\pi)$

6. Graph one cycle to the left and one cycle to the right of the given graph. Label all key coordinate points.