Problem Set 3 Name: _____

6 pts. each blank.

1. Identify **ALL** coterminal angles between -360° & 360° for the angle whose measure is -620°.

_____ _____

2. Determine the reference angle for an angle of 1246°.

_____

3. Find the value of the tangent for angle A if $a = 8,\ c = 15,\ C = 90^\circ$.

_____

4. Find $\sin(-270°)$. (4 pts.)

_____

5. Find the exact value of $\cos 300^\circ$.

_____

6. Find the exact value of $\cos\theta$ & $\sin\theta$ for angle θ in standard position for the point $(7, -24)$.

_____ _____

7. Change 140° to radian measure in terms of π._____

8. Change $\frac{66\pi}{37}$ to degree measure to the nearest second. _____

9. A sector of a circle has radius 6 cm and central angle 0.5 radians. Find its arc length and area. (8 pts)

_____

10. A sector of a circle has central angle 30° and arc length 5in. Find the area. (nearest hundredth)

_____

11. $y = 2\cos 3\left(x - \frac{\pi}{3}\right) + 2$ (**Graph 2 Cycles**)

Graph: 8 pts

A=_____(5 pts)

Period=_____ (5 pts)

Phase Shift=_____ (5 pts)

Vertical Shift=_____ (5 pts)