Warm-up:

A. Label the coordinates of the given points.

B. Write a "definition" for each of the
following in terms of x, y, and r:

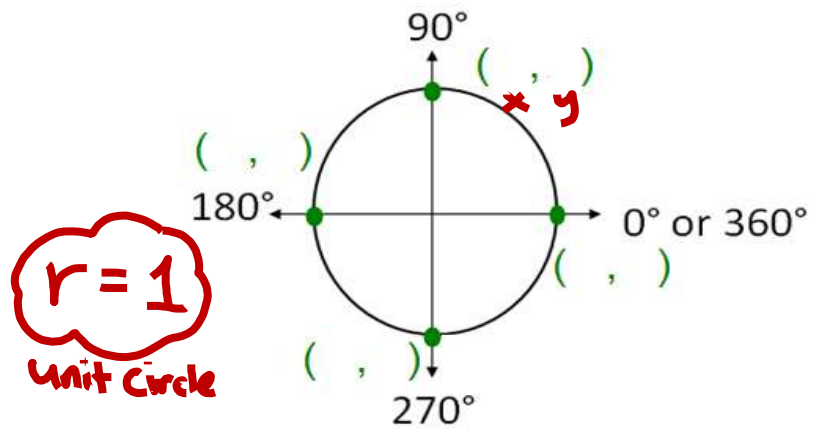*sinθ* =   *cscθ* =

cosθ =   *secθ* =

tanθ =   *cotθ* =

C. Use your unit circle and definitions to evaluate the following expressions:

sin 180° =   tan 90° =   cot 270° =   sec 360° =

90°

(,)

(,)

180°

0° or 360°

(,)

r = 1

Unit Circle

(,)

270°

x y

Ch.6 Group Quiz: Study List

*Find coterminal angles θ ± 360n (n is a whole number)
*Find reference angles θ, 180 – θ, θ – 180, 360 – θ

*30°-60°-90° and 45°-45°-90° triangles (know basic
measurements and find trig ratios)

*Use unit circle to find "special" trig ratios for 0°, 90°,
180°, 270°, 360°

*Find trig ratios, given a point, angle, triangle, or terminal
side in a certain quadrant (apply negatives appropriately)
$\sin\theta = y/r$ $\cos\theta = x/r$ $\tan\theta = y/x$
$\csc\theta = r/y$ $\sec\theta = r/x$ $\cot\theta = x/y$

*Solve for a missing side or angle in a right triangle:
Soh Cah Toa

*Apply inverses: $\sin^{-1}\theta$, $\cos^{-1}\theta$, $\tan^{-1}\theta$

*Law of Sines

*Law of Cosines

*Area of Triangle: A = ½(side1)(side2)sin(included angle)

*Solve word problems using trig

**6.6 #7-15odd, 21-24,
39,40,44,48**

<u>**CHECK EVEN
ANSWERS
(22,24,40,44,48)**</u>

3.84
7.30
12.17
21.28
28.21
31.17