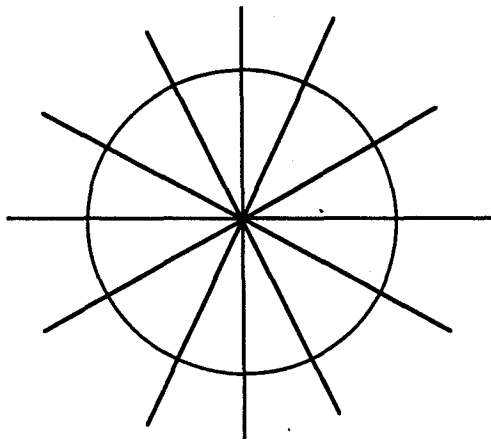


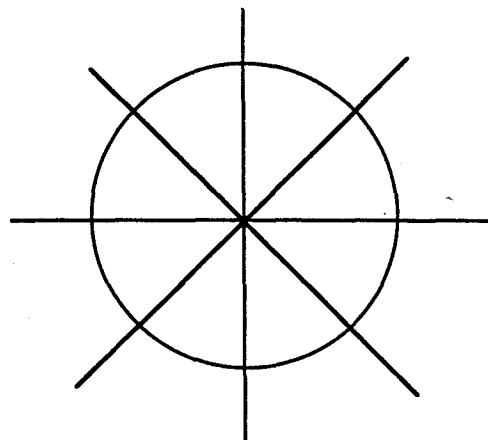
Algebra 2 REVIEW  
CT

LABEL THE FOLLOWING ANGLES IN RADIANS (USE  $\pi$ )

1)



2)



MAKE THE FOLLOWING CONVERSIONS

To Degrees

3)  $\frac{5\pi^R}{4}$

4)  $2.45^R$

To Radians (leave in terms of  $\pi$ )

5)  $120^\circ$

6)  $280^\circ$

USE THE FINGER TRICK TO EVALUATE (DRAW A PICTURE TO DETERMINE THE SIGN)  
*GIVE THE REFERENCE ANGLE*

7)  $\sin 210^\circ$

8)  $\cos 315^\circ$

9)  $\sin 60^\circ$

$\cos 210^\circ$

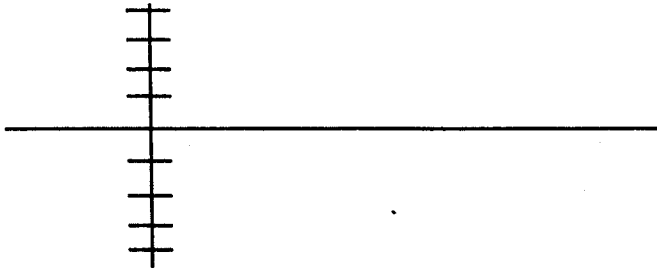
$\sin 315^\circ$

$\cos 60^\circ$

# Algebra 2 REVIEW CT

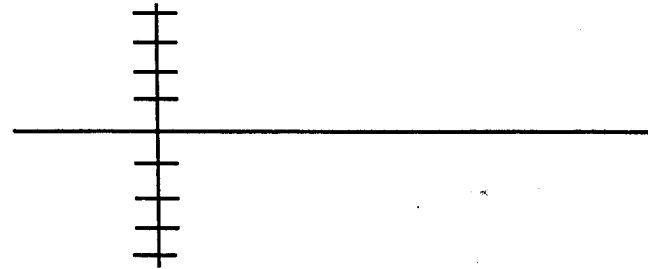
Draw the graph (in Radians)

10)  $Y = -2\cos\left(\frac{1}{2}\left(x - \frac{\pi}{4}\right)\right) - 2$



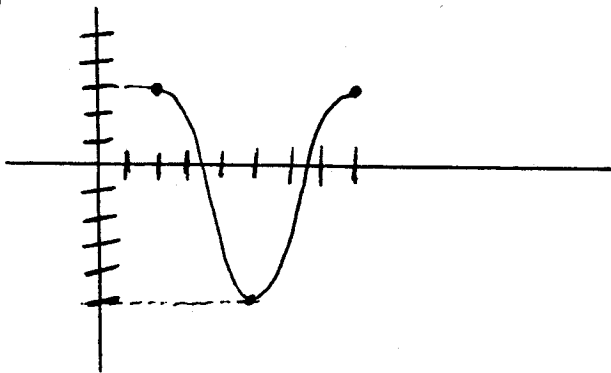
DRAW THE GRAPH (In Degrees)

11)  $Y = 3\cos 2(X - 20) + 1$

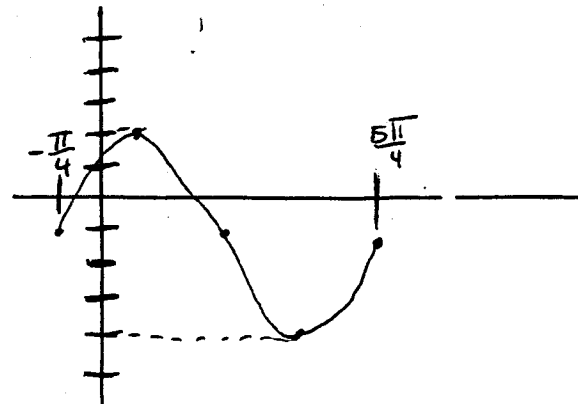


Write the equation of the graph (RADIANs)

12)



13)



Write an equation that models the following situation

14) The population of a certain animal cycles from a high of 83 million to a low of 41 million every 10 years.

- a) Draw a picture that models the example      b) Write the equation

extra credit: Predict the population 8 years after the highest population is reached?  
(hint: make sure you use the correct units) Show your work.