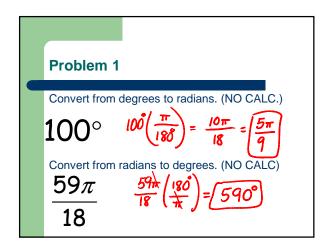


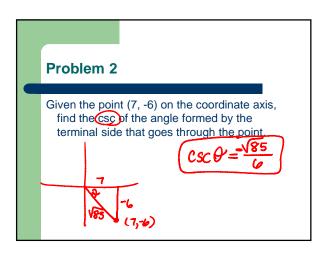
# **RAFFLE GAME**

- Work the problems in your notebook. Most problems are calc OK.
- Write your name and the answer only on your raffle ticket.
- Turn in your ticket for each question on time to be eligible for each drawing!
- Drawings will be held every few questions. Spin the Prize Wheel to win!

# Problem 1 Convert from degrees to radians. (NO CALC.) $100^{\circ}$ Convert from radians to degrees. (NO CALC) $\frac{59\pi}{18}$



# Given the point (7, -6) on the coordinate axis, find the csc of the angle formed by the terminal side that goes through the point.



# **Problem 3**

Find  $\sin \theta$  if  $\cos \theta = \frac{2}{5}$  and  $\tan \theta < 0$ 

# Problem 3 Find $\sin \theta$ if $\cos \theta = \frac{2}{5}$ and $\tan \theta < 0$ Sin $\theta = \frac{12}{5}$

## **Problem 4**

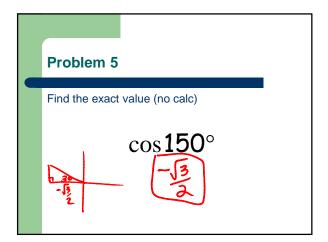
From a distance of 1206 feet from a spot light, the angle of elevation to the top of the light is 43 degrees. Find the height of the spot light to the nearest foot.

# 

## **Problem 5**

Find the exact value (no calc)

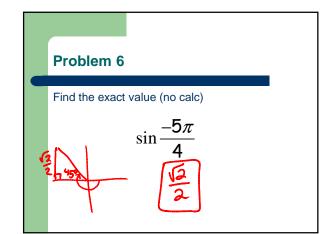
 $\cos 150^{\circ}$ 



# Problem 6

Find the exact value (no calc)

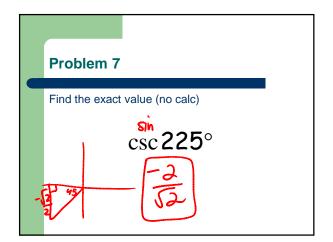
$$\sin\frac{-5\pi}{4}$$



# **Problem 7**

Find the exact value (no calc)

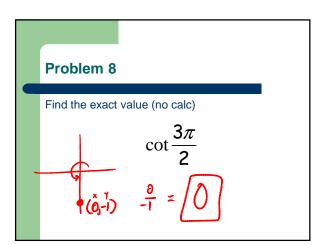
csc 225°



# **Problem 8**

Find the exact value (no calc)

$$\cot \frac{3\pi}{2}$$



## **Problem 9**

What compass heading is closest to a bearing of 192 degrees?

# Problem 9 What compass heading is closest to a bearing of 192 degrees? SSW SWSSWS (South-Southwest)

## **Problem 10**

In  $\triangle$  ABC, find all possible measures, if any, of angle B.

a = 20, b = 22, A = 32 degrees

# 

## **Problem 11**

In Triangle MON, Angle O = 110 degrees, m = 10, and n = 8. Find o.

