


## 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.)

Convert from radians to degrees. (NO CALC)

$$
\frac{59 \pi}{18} \quad \frac{5997}{18}\left(\frac{180^{\circ}}{\pi}\right)=590^{\circ}
$$



## Problem 3

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


Problem 4
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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 fogt
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)




Problem 10

In $\triangle A B C$, find all possible measures, if any, of angle $B$.
$a=20, b=22, A=32$ degrees


## Problem 11

In Triangle MON, Angle $\mathrm{O}=110$ degrees, $\mathrm{m}=$ 10 , and $\mathrm{n}=8$. Find o .


## Problem 12

Problem 12

- Find the area of $\triangle \mathrm{ABC}$ if
$a=6, b=18$, and $m \angle C=60^{\circ}$
Problem 13
Find the area of Triangle BIG if $\mathrm{b}=11, \mathrm{i}=9$,
and $\mathrm{g}=4$.

Problem 13

Find the area of Triangle BIG if $b=11, i=9$, and $\mathrm{g}=4$.
$S=\frac{11+9+4}{2}=12$

$$
A=\sqrt{12(12-11)(12-9)(12-4)}
$$

$$
A=17.0 u^{2}
$$

