Math 51	(7:30am - 8:20am)
Quiz 1	
Fri Apr	10, 2009

SCORE: \_\_\_ / 10 POINTS

What month is your birthday?
What are the first 2 digits of your address?
What are the last 2 digits of your zip code?
What are the last 2 digits of your social security number?
[IF YOU DO NOT HAVE A SOCIAL SECURITY NUMBER, USE YOUR STUDENT ID NUMBER]

## TO RECEIVE FULL CREDIT, YOU MUST SHOW NEATLY HOW YOU ARRIVED AT YOUR ANSWERS

The measures of two angles of a triangle are 17°41′13″ and 96°12′10″. Find the measure of the third angle. Your answer should be in degrees/minutes/seconds format, **NOT** decimal degrees.

SCORE: \_\_\_/2 POINTS

$$= 180^{\circ} - (17^{\circ}41'13'' + 96^{\circ}12'10'')$$

$$= 180^{\circ} - 113^{\circ}53'23''$$

$$= 179^{\circ}59'60'' - 113^{\circ}53'23''$$

$$= 66^{\circ}6'37''$$

Find the angle of least positive measure coterminal with -5280°.

SCORE: /2 POINTS

1 POINT BACH

An airplane propeller rotates 950 times per minute. Find the number of degrees that a point on the edge of the SCORE: \_\_/3 POINTS propeller will rotate in 7 seconds.

950 ROTATIONS PER MINUTE

950 ROTATIONS PER SECOND

= 950 × 360 DEGREES PER SECOND

= 950 × 360 DEGREES PER SECOND

= 950 × 360 × 7 DEGREES IN 7 SECONDS = 39,900 IN 7 SECONDS

Firefighters at the Morganza Fire Station need to measure the height of the station flaggode. They find that at the SCORE: \_\_/3 POINTS

Firefighters at the Morganza Fire Station need to measure the height of the station flagpole. They find that at the SCORE: \_\_\_/3 POINTS instant when the shadow of the station is 18m long, the shadow of the flagpole is 99m long. The station is 10m high. Find the height of the flagpole.



 $\frac{h}{10} = \frac{99}{18}$  2 POINTS 18h = 990 h = 55m | POINT