

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]

## SCORE: \_\_\_ / 20 POINTS

## NO CALCULATORS ALLOWED

Fill in the trigonometric function values.

Write  $\csc(\alpha + 20^{\circ})$  in terms of its cofunction.

sec (90°-(x+20°))

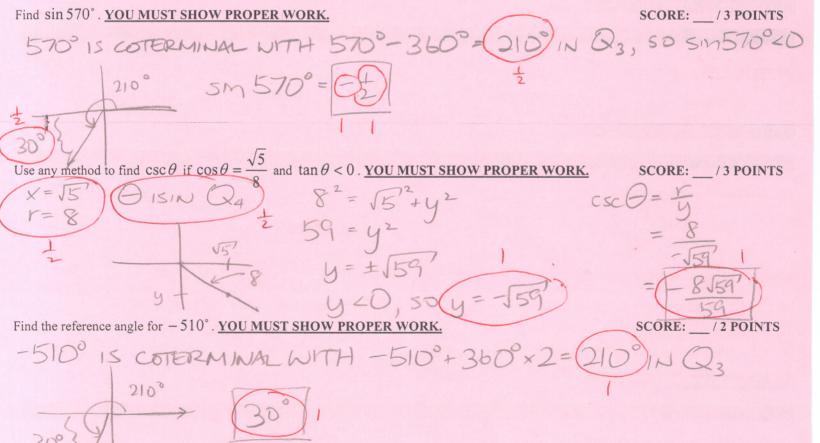
SCORE: /3 POINTS

SCORE: / 1 POINT

OUESTIONS ON OTHER SIDE

θ	$\sin \theta$	$\cos \theta$	Tan $\theta$
0°	0		0
30°	12	13/2	<u>3</u> 3
45°	52	52	1
60°	3	1	137
90°	1	0	UNDEF

- 1 FOR EACH ERROR MINIMUM: O POINTS



Use an identity (NOT x, y and r) to find  $\sec \theta$  if  $\tan \theta = \frac{\sqrt{7}}{3}$  and  $\theta$  is in the third quadrant.

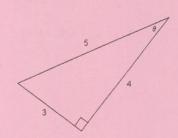
SCORE: \_\_\_/3 POINTS

$$8eC\theta = tan^2\theta + 1$$

$$= \frac{7}{9} + 1$$

## OISIN Q3, SO SECOLO, SO SECO =

## Multiple Choice - You do NOT need to show work



Find  $\cot \theta$  in the figure.

SCORE: \_\_\_/1 POINT

[a]  $\frac{3}{4}$  [b]  $\frac{3}{5}$  [c]  $\frac{4}{3}$  [d]  $\frac{4}{5}$  [e]  $\frac{5}{3}$  [f]  $\frac{5}{4}$ 

LETTER OF CORRECT ANSWER:

Identify the quadrant of an angle  $\theta$  if  $\csc \theta > 0$  and  $\tan \theta < 0$ .

SCORE: \_\_\_/1 POINT

SCORE: \_\_\_/1 POINTS

SCORE: \_\_\_ / 2 POINTS

[a] 1<sup>st</sup> quadrant

[b] 2<sup>nd</sup> quadrant

[c] 3<sup>rd</sup> quadrant

[d] 4<sup>th</sup> quadrant

LETTER OF CORRECT ANSWER:

Consider the following statements:

[1]  $\tan \theta = 110.47$ 

[2]  $\sec \alpha = 0.6$ 

Which of the above statements is/are possible?

- [a] [1] and [2] are both possible
- [b] only [1] is possible [c] only [2] is possible
- [d] neither statement is possible

LETTER OF CORRECT ANSWER



 $\csc(-450^{\circ}) =$ 

1] 0

[p]

[c] -1

[d]

undefined