

Finish Taking Up Assignment Questions #4 and #5

IMPORTANT INFORMATION - TRIG IDENTITIES

You **CANNOT** multiply, divide, subtract, or add to both sides of the equals sign, the way you can with equations. This are **NOT EQUATIONS**. If this was the case, you could simply multiply both sides by 0 to make them equal.

You must KEEP the value of the LEFT side equal to its original value, and keep the RIGHT side equal to its original value. Therefore, you can ONLY USE the fundamental trig identities (quotient, Pythagorean, reciprocals)

Refer back to page 399 #4 f)

$$\frac{1+2\sin x \cos x}{\sin x + \cos x} = \sin x + \cos x$$

Homework Take-Up from Trig Identities Worksheet

Front Page

#1) $\tan^2 x + 1 = \sec^2 x$

#7) $1 - \sin^2 x = \sin x \cos x \cot x$

#8) $\csc^2 x = \cot x + 1$

Homework Take-Up from Trig Identities Worksheet

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#1) $\sec x (1 + \cos x) = 1 + \sec x$

#10) $\frac{\tan^2 x}{1 + \tan^2 x} = \sin^2 x$

Test Review.notebook

1. Find the exact value:

a) $\sin 150^\circ$

b) $\tan^2 60^\circ - \sin^2 30^\circ$

2. Know the CAST rule and how to find RAA!

Eg. $\cos 120^\circ$

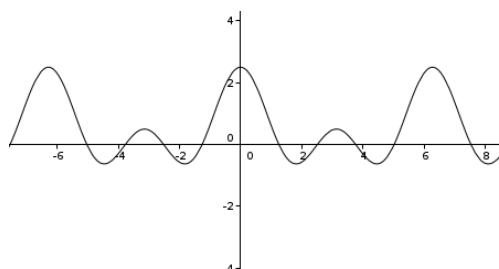
Quadrant?

What is the RAA?

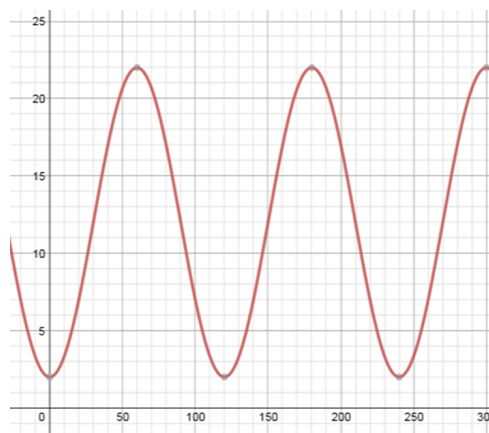
3. What quadrant does -58° fall into?

3. What are the 3 primary exact trigonometric ratios for the angle represented by the terminal arm that goes through (5, -4)?

4. Is the following a periodic function? If so, what is the period?

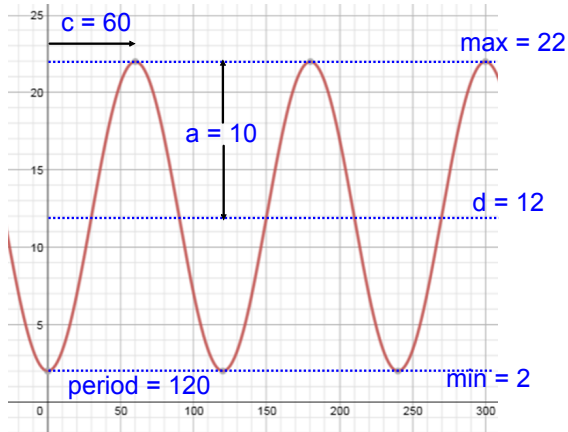


5. What is the equation of the following graph?



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5. What is the equation of the following graph?



Also look over:

- Look over Example 6 on page 385 in textbook
- #2 from Trig Functions Assignment

Review Questions:

p. 388 #11

p. 413 #11, 13, 14, 15a,b, 17, 19 – 27, 30 – 34

p. 418 #3, 5, 9, 11

Test Outline:

Co-terminal angles

Related acute angles

Finding all possible measures of an angle (using RAA, CAST, and

Co-terminal angles)

Trig ratios of any angle

Special triangles (finding exact values)

Modelling periodic behavior

Sketching trig functions

Transformations of periodic functions

Trig applications

- This will include a graph and must come up with your own word problem that corresponds to the given graph. You will also need to come up with the equation from the graph.

- There will be a word problem where you will be given a situation and must come up with the equation and graph it

Trig Identities