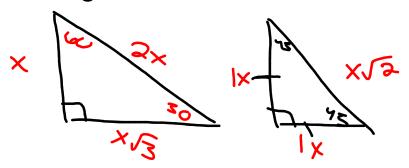
5/23 - 7th Block Final 5/24- 6th/8th Block Final Warm Up

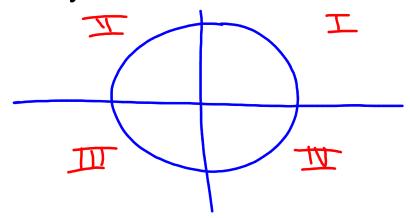
*Create and label the two special right triangles.

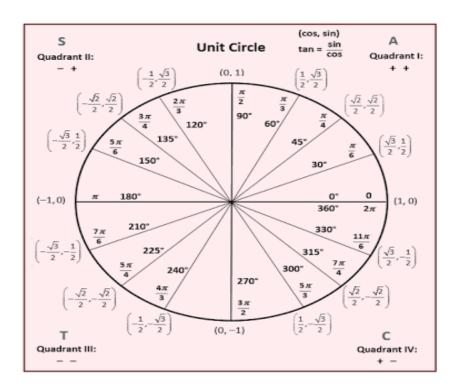


*Go over Rational Functions Test!

-If you haven't taken it, please sit outside.

*Lets see how much trig you remember!
-Can you recreate the unit circle?





What to expect on the Final? <u>Two parts</u>

-Non calculator (free response)

- *Matching graphs with equations
- *Graphing (including Domain, Range, Asymptote)
- *Evaluate logs and trig functions
- *Simplify Rational Functions, Rational Exponents
- *Solving Rationals, logs, exponentials, trig functions

-Calculator (multiple choice)

- *Multiple Choice
- *Inverses, solving, simplify
- *Composition Functions
- *Compound Interest Word Problems

***Please bring in textbooks on Friday or next Tuesday.

Trigonometry

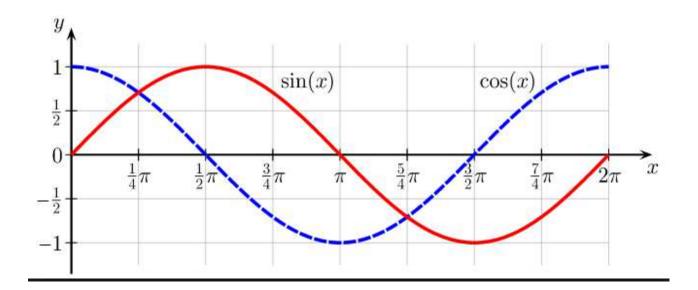
Special Right Triangles

Unit Circle

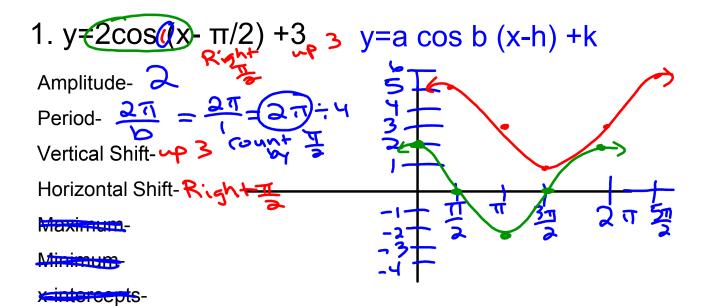
Evaluating

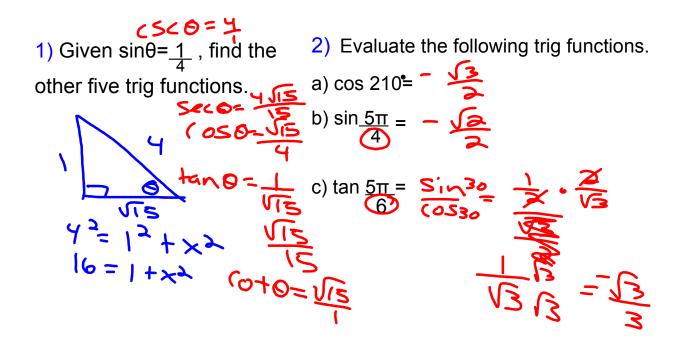
Solving

Graphing



Translations of Sine and Cosine Graphs To graph $y = a \sin b(x - h) + k$ or $y = a \cos b(x - h) + k$ where a > 0 and b > 0, follow these steps: $y = 2\pi$ Identify the amplitude a, the period $\frac{2\pi}{b}$, the horizontal shift h, and the vertical shift k of the graph. STEP 2 Draw the horizontal line y = k, called the *midline* of the graph. STEP 3 Find the five key points by translating the key points of $y = a \sin bx$ or $y = a \cos bx$ horizontally h units and vertically k units.





3) Solve the following equation.

2sinxcosx=sinx

Solving Trigonometric Functions

Solve the following for $0 \le x < 2\pi$.

A)
$$\sin(x) + 2 = 3$$
.

Sinx=1

B)
$$tan^{2}(x) - 3 = 0$$

$$fay^{2}x = \sqrt{3}$$

$$fanx = \pm \sqrt{3}$$

$$60, 120, 240, 300$$

C)
$$2\cos^{2}(x) - \sqrt{3}\cos(x) = 0$$

 $\cos x \left(2\cos x - \sqrt{3}\right) = 0$
 $\cos x = 0$ $2\cos x - \sqrt{3} = 0$
 $\cos x = 0$ $2\cos x = \sqrt{3}$
 $\cos x = \sqrt{3}$
 $\cos x = \sqrt{3}$
 $\cos x = \sqrt{3}$
 $\cos x = \sqrt{3}$

Trig Kahoots/Quizizzs

 $\underline{https://quizizz.com/admin/quiz/5c3e20a16383af001b37d9cf/unit-circle-evaluating-trig}$

 $\underline{https://quizizz.com/admin/quiz/5b07075839ecff001ad8ff0d/evaluating-trigonometric-functions}$

- *Let's work on the reviews.
- -Find the trig questions.

Rational Exponents and Radical Functions

Graphs

Exponent Rules

Inverses

Compositions

Radical Exponents Worksheet

 $\underline{https://quizizz.com/admin/quiz/579a16dfff0524336f48d1b6/412-adding-and-subtracting-radicals}$

https://create.kahoot.it/#quiz/098278be-54b9-4742-9c52-50eb11674b32

https://create.kahoot.it/#quiz/0dd462de-6ce3-400a-bc56-11214959ccd9

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Day 2- Final Review Cheat Sheet

*Let's get out our folders with our tests. Write down old problems or formulas.

*20 minutes

<u>Day 2</u>

Exponentials and Logs

Graph a)
$$y= 2 (1/3)^{x-1}+4$$

b)
$$y = log_3(x-1)+2$$

Exponentials and Logs

Condensing/Expanding

a)
$$log 2x^3y^5z$$

b)
$$3(log_2x + 3log_2y - 4log_2z)$$

Exponentials and Logs Inverses

a)
$$y=\ln(x+4)-1$$

b)
$$y=e^{x+3}-6$$

c)
$$y = log_2(x+1)-4$$

d)
$$y=4x-3+1$$

Stations

https://quizizz.com/admin/quiz/570cd81701a18feb4643394a/logs

Rational Functions

Graphs

Multiply/Divide

Solving

Rational Functions

https://create.kahoot.it/#quiz/9ae640e6-688e-4111-ac18-9d7f25a0a27f

https://create.kahoot.it/#quiz/ed3790db-2df7-4bc7-945c-935d3c584f9f

HW: Final Review Packets

*Extra Credit & Final Review due on the day of the final!!!!