

OAKLAND CUSD #5

PRE-CALCULUS

MAY 4 - 8, 2020

WILLIAM SEWELL

Week: May 4 -May 8, 2020

Teacher: William Sewell

Communication: email: william.sewell@oakland5.org or Google Hangout-Meet

Office hours: Monday and Wednesday: 12:00 to 2:00 p.m., Tuesday and Thursday: 12:00 to 1:00 p.m.

Due Date: All assignments are due 5/11/2020 either by sending a picture of it and turning it into Google Classroom or turning it into the office.

Assignments: All assignments will be in "Google Classroom" and a paper copy will be provided from the Oakland main office. I will have office hours as listed above which we can review the assignments given and I will help you as much as needed. However, the expectation is the same as it was before. I expect you to have made a serious effort to complete the assignment, before asking for help. You will not learn anything with me just giving you the answers.

Class	Choice 1	Choice 2	Choice 3 (Enrichment)
Earth Science	<p>Weather: For 5 straight days, do the following:</p> <ol style="list-style-type: none"> 1. Watch the news for the weather report. 2. Record their prediction. 3. Write what actually happened. 4. Were they correct? 5. Watch the weather report in the evening and what was their recap of the day's forecast. 	<p>Take pictures of the moon and record the cycle that it is in from Monday through Friday. Repeat this activity for this week and make a comparison to last week, if you did this activity or wait until next week and compare it then. Please use the given table to complete. Please refer to page 779 in your book.</p>	<p>Human Impact On Resources Please answer and respond to the following questions and statements. Make a list of five ways humans impact Earth by doing the following for each.</p> <ol style="list-style-type: none"> 1. State the human impact. 2. Determine whether or not it is positive or negative. 3. State the things which determine the degree of this impact. 4. Is this impact permanent or temporary?

Class	Choice 1	Choice 2	Choice 3 (Enrichment)
Physical Science	Reflection on Water Usage Write a paragraph about the following: 1. Do you think you used too much water? 2. What are some ways that you can reduce your water usage? 3. Will this change make you less clean or less hydrated? How will these changes effect you?	Graph your data of distance versus time. With distance on the vertical axis and time on the horizontal axis, using the given graph paper. Draw a best fit line by drawing a straight line between those points.	Calculate the speed of your distance ran, walked, hopped, and skipped by taking your distance and dividing it by your time.
Chemistry	Unit 5: Relative Mass Lab video and write-up	Unit 5: Quiz 1	Do Empirical Formula Lab WS by watching video and pictures of lab.
Pre-calculus	Sinusoidal Equations WS #1	Sinusoidal Equations WS #2	Watch videos on sinusoidal equations and do problems. They will be assigned in Khan academy.



Pre-Calculus: Precalculus

Assign content

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Solve sinusoidal equations (basic) Student view

Solve the equation in the interval from $-\pi$ to 2π . Your answer should be in *radians*.

All choices are rounded to the nearest hundredth.

$$\sin(x) = -1$$

Choose all answers that apply:

(A) -4.71

(B) -1.57

(C) 0

(D) 1.57

(E) 3.14

(F) 4.71

Select one or more expressions that together represent all solutions to the equation. Your answer should be in *degrees*.

Assume n is any integer.

$$\sin(x) = 0.4$$

Choose all answers that

(A) $21.80^\circ + n \cdot$

(B) $23.58^\circ + n \cdot$

(C) $66.42^\circ + n \cdot$

(D) $156.42^\circ + n$

(E) $293.58^\circ + n$

Select one or more expressions that together represent all solutions to the equation. Your answer should be in *degrees*.

Assume n is any integer.

$$\sin(x) = 1$$

Choose all answers that apply:

(A) $0^\circ + n \cdot 360$

(B) $45^\circ + n \cdot 36$

(C) $90^\circ + n \cdot 18$

(D) $90^\circ + n \cdot 36$

(E) $270^\circ + n \cdot 1$

(F) $270^\circ + n \cdot 3$

Restricting domains of functions to make them invertible

Precalculus ▾

Domain & range of inverse tangent function



Pre-Calculus: Precalculus
Assign content

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Solve sinusoidal equations (basic) Student view

all solutions to the equation. Your answer should be in degrees.

Assume n is any integer.

$$\sin(x) = -0.7$$

Choose all answers that

(A) $-135.57^\circ + n$

(B) $-44.43^\circ + n$

(C) $-44.43^\circ + n$

(D) $44.43^\circ + n$

(E) $134.42^\circ + n$

(F) $134.42^\circ + n$



Select one or more expressions that together represent all solutions to the equation. Your answer should be in degrees.

Assume n is any integer.

$$\cos(x) = 0.4$$

Choose all answers that

(A) $-156.42^\circ + n$

(B) $-66.42^\circ + n$

(C) $66.42^\circ + n$

(D) $66.42^\circ + n$

(E) $113.58^\circ + n$

(F) $113.58^\circ + n$

Select one or more expressions that together represent all solutions to the equation. Your answer should be in degrees.

Assume n is any integer.

$$\cos(x) = 0.55$$

Choose all answers that

(A) $-123.37^\circ + n$

(B) $-56.63^\circ + n$

(C) $-56.63^\circ + n$

(D) $56.63^\circ + n$

(E) $56.63^\circ + n$

(F) $123.37^\circ + n$



Restricting domains of functions to make them invertible

Precalculus ▾

Domain & range of inverse tangent function



Pre-Calculus: Precalculus

Assign content

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Solve sinusoidal equations (basic) Student view

Select one or more expressions that together represent all solutions to the equation. Your answer should be in *radians*.

Assume n is any integer.

$$\sin(x) = -0.55$$

Choose all answers that apply:

(A) $-2.56 + n \cdot \pi$

(B) $-2.56 + n$

(C) $-0.58 + n \cdot \pi$

(D) $0.58 + n \cdot 2\pi$

(E) $0.85 + n \cdot \pi$

(F) $2.56 + n \cdot \pi$

Select one or more expressions that together represent all solutions to the equation. Your answer should be in *radians*.

Assume n is any integer.

$$\sin(x) = -0.25$$

Choose all answers that apply:

(A) $-2.89 + n \cdot \pi$

(B) $-0.25 + n \cdot \pi$

(C) $-0.25 + n$

(D) $0.25 + n \cdot 2\pi$

(E) $1.32 + n \cdot 2\pi$

Select one or more expressions that together represent all solutions to the equation. Your answer should be in *radians*.

Assume n is any integer.

$$\cos(x) = 0.15$$

Choose all answers that apply:

(A) $-2.99 + n \cdot \pi$

(B) $-1.42 + n \cdot \pi$

(C) $1.42 + n \cdot \pi$

(D) $1.42 + n \cdot 2\pi$

(E) $4.56 + n \cdot \pi$

(F) $4.56 + n \cdot 2\pi$

Restrictive domains of functions to make them invertible

Precalculus ▾

Domain & range of inverse tangent function



Pre-Calculus: Precalculus

Assign content

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Solve sinusoidal equations (basic) Student view

~~Student view | Will be deleted in 10 minutes~~

Solve the equation in the interval from -90° to 450° . Your answer should be in degrees.

All choices are rounded to the nearest hundredth.

$$\cos(x) = 0.2$$

Choose all answers that apply:

A -78.46°

B 11.54°

C 78.46°

D 281.54°

E 371.54°

Solve the equation in the interval from 180° to 720° . Your answer should be in degrees.

All choices are rounded to the nearest hundredth.

$$\cos(x) = -0.4$$

Choose all answers that apply:

A 66.42°

B 156.57°

C 246.42°

D 426.42°

E 473.58°

Solve the equation in the interval from 270° to 810° . Your answer should be in degrees.

$$\cos(x) = 1$$

Choose all answers that apply:

A 0°

B 90°

C 360°

D 540°

E 720°

F 1080°



Restricting domains of functions to make them invertible

Video · 6 minutes

HSF.BF.B.4, HSF.BF.B.4a



Domain & range of inverse tangent function



Pre-Calculus: Precalculus
Assign content

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Solve sinusoidal equations (basic) Student view

(F) 194.48°

Solve the equation in the interval from π to 4π . Your answer should be in radians.

All choices are rounded to the nearest hundredth.

$$\cos(x) = -0.35$$

Choose all answers that apply:

(A) 1.93

(B) 4.35

(C) 5.93

(D) 8.21

(E) 10.64

Solve the equation in the interval from $\frac{7\pi}{2}$ to $\frac{13\pi}{2}$. Your answer should be in radians.

All choices are rounded to the nearest hundredth.

$$\sin(x) = 0.95$$

Choose all answers that apply:

(A) 7.53

(B) 8.17

(C) 9.10

(D) 13.82

Solve the equation in the interval from $\frac{3\pi}{2}$ to $\frac{9\pi}{2}$. Your answer should be in radians.

All choices are rounded to the nearest hundredth.

$$\sin(x) = 0.65$$

Choose all answers that apply:

(A) 6.99

(B) 7.15

(C) 8.71

(D) 10.29

(E) 11.86



Restricting domains of functions to make them invertible

Video • 6 minutes

HSF.BF.4, HSF.BF.4d



Domain & range of inverse tangent function



Pre-Calculus: Precalculus

Assign content

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Solve sinusoidal equations (basic) Student view

Solve the equation
in the interval from
 510° to 1050° .
Your answer should
be in *degrees*.

$$\sin(x) = 0$$

Choose all answers
that apply:

A 540°

B 630°

C 720°

D 810°

E 900°

F 990°

Solve the equation
in the interval from
 -270° to 270° .
Your answer should
be in *degrees*.
All choices are
rounded to the
nearest hundredth.

$$\sin(x) = 0.25$$

Choose all answers
that apply:

A -194.48°

B -165.52°

C -14.48°

D 14.48°

E 165.52°

Solve the equation
in the interval from
 $-\frac{\pi}{2}$ to $\frac{5\pi}{2}$. Your
answer should be in
radians.

All choices are
rounded to the
nearest hundredth.

$$\cos(x) = -0.7$$

Choose all answers
that apply:

A -3.93

B -2.35

C -0.78

D 2.35

E 3.93

F 8.63

➤ Restriction, domains of functions to make them invertible
Video · 6 minutes

HSF.BF.3.4, HSF.BF.3.4c

➤ Domain & range of inverse tangent function