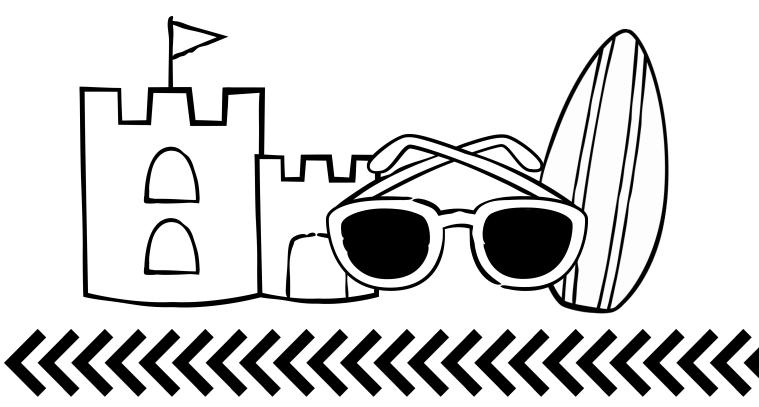


Summer Review Packet

NAME: _____



Name:

SUMMER MATH REVIEW Week one

LUANOK

Evaluate each expression: $(-2)^5$

 $\left(\frac{2}{3}\right)^{\frac{1}{2}}$

 -3^{4}

J. WOSIMI

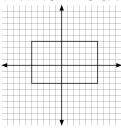
Write each number in standard form:

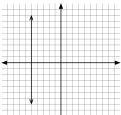
$$4.5\times10^{-4}$$

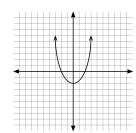
 3.12×10^{9}

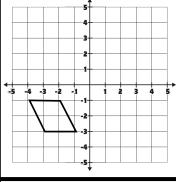
LIMBSINGIM LYGSIMII

Determine if each graph is a function or not.









Translate the figure 3 units up and 2 units to the right. What are the coordinates of the image?

Solve each equation. Show all of your work.

$$-5x = 2.25$$

$$-42 = x - 31$$

SUMMER MATH REVIEW Week Two

KUONOK

Simplify each expression: $x^5 \cdot x^3$

 $g^2 \cdot g$

 $x^5 \cdot x^{10}$

J. WOSIMI

Write each number in scientific notation:

3,400,000

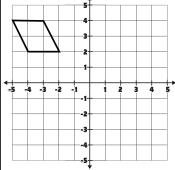
0.00000521

L WOSENOEM

Write the equation represented by the function:

X	У
-1	-1
0	1
1	3

LYASSINII



Reflect the figure across the y-axis. What are the coordinates of the image?

Solve each equation. Show all of your work.

$$3x + 7x = -90$$

-7x - x = -73.6

SUMMER MATH REVIEW Week Three

Simplify each expression:

$$x^6 \div x^3$$

$$h^7 \div h$$

$$\frac{b^8}{b^7}$$

Evaluate each expression:

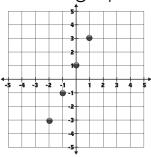
$$2.3\times10^5 + 4.1\times10^5$$

$$2 \times 10^9 - 8 \times 10^5$$

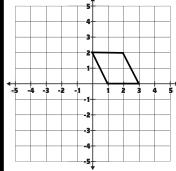
WOSIMI

LYONOM

Use the graph to write a linear function that relates y to x



LIMBSONA MEDNESONA



Rotate the figure below 90° clockwise about the origin. What are the coordinates of the image?

Solve each equation. Show all of your work.

$$-2(5x+3) = -36$$

9(-3x-10)=-495

LUANOK

SUMMER MATH REVIEW Week Four

Simplify each expression:

$$(-2^3)^4$$

$$(x^4)^9$$

$$(g^2)^7$$

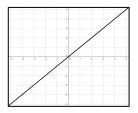
Evaluate each expression:

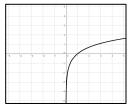
$$(2 \times 10^2)(6 \times 10^3)$$

$$(3.5 \times 10^{-4})(2 \times 10^{-3})$$

L WOSIMI

Determine if the graphs below represent a linear or nonlinear function. Justify your answer.





LIMBSDYL MEDNESDYL

The coordinates of a triangle and its image are given below. What is the scale factor?

$$(\mathbf{1},\mathbf{2})\to(\mathbf{3},\mathbf{6})$$

$$(1,4)\rightarrow(3,12)$$

$$(5,3)\rightarrow(15,9)$$

Solve the equation. Show all of your work.

$$-3x + 14 - 4x = 5x - 9x - 4$$

SUMMER MATH REVIEW Week Five

^	Simplify each expressio	n:	
AMOMOM	$(6x)^3$	$(ab)^3$	$(2ab)^5$
			1

Evaluate each expression:

$$(8.\,1{\times}10^4)\div(2.\,7{\times}10^{-2})$$

$$\frac{9\times10^5}{3\times10^3}$$

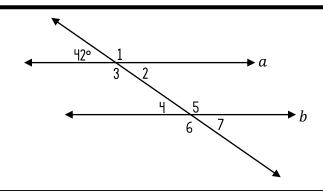
K Wasanaam

Classify each number as rational or irrational.

$\sqrt{32}$	$-\frac{1}{3}$	$\pi + 2$
Rational or Irrational	Rational or Irrational	Rational or Irrational

MURSOUY

Find the missing angles.



Solve each equation in terms of y. Show all work

$$-3y + 6x = 24$$

$$z + 4x - 2y = 9z$$

SUMMER MATH REVIEW Week Six

Simplify each expression:

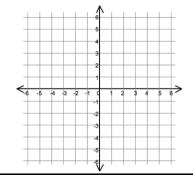
 6^0

 b^0

 $4^2 \times 4^0$

Graph the equation using the table of values.

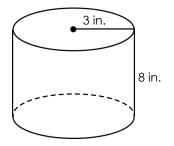
	equation using in		or values
×	y= x-1	У	(x,y)



Complete the table below. Mark off each subset the number fits in.

Number	Natural	Whole	Integer	Rational	Irrational
- 9					
$\sqrt{16}$					
$\sqrt{8}$					

Find the volume of the cylinder below:



How many solutions does each equation have? Show all work

$$3(2x+2) + 3 = 6x + 9$$

$$5x - 3 = 2x + 9 + 3x$$

KUONOK

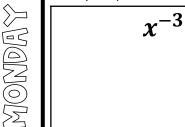
WOSIMI

LYMBSINGIM LYMBSIMIL

Name: _____

SUMMER MATH REVIEW Week Seven

Simplify each expression and rewrite it with positive exponents.

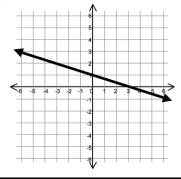


$$2b^{-9}$$

$$g^2 \div g^8$$

TUESDAY

Find the slope of the line graphed below:



WEDNIESDYY

Write each fraction as a decimal.

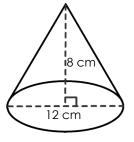
2	
3	

$$-2\frac{1}{4}$$

$$\frac{2}{11}$$

LIMBSBMIL

Find the volume of the cone below:



Solve the systems of equations. Show all work.

$$\begin{cases} x + y = 8 \\ x - y = 4 \end{cases}$$

SUMMER MATH REVIEW Week Fight

\ _
/ _
5/
9)
>>

Simplify each expression.

$$4x^{-5}$$

$$\left(f^3g^2\right)^{-4}$$

$$a^2 \times a^{-4}$$

Decide if x and y are directly proportional. If they are, indicate the value of k.

$$5y = x$$

$$\frac{1}{3}y = x$$

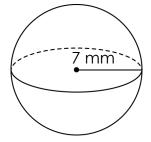
$$2 + 2y = x$$

THURSONY WEDNESONY

Estimate $\sqrt{70}$ to the nearest integer.



Find the volume of the sphere below:



Solve the systems of equations. Show all work.

$$\begin{cases} x + 2y = 6 \\ x - y = 3 \end{cases}$$

Name: ______

SUMMER MATH REVIEW Week Nine

WONDE

MESDAY

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A WOSSMIL

WOISE

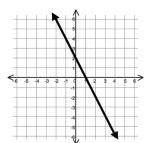
Evaluate each expression.

$$\sqrt{121} =$$

$$\pm\sqrt{16} =$$

$$-\sqrt{\frac{4}{25}}=$$

Identify the x- and y- intercepts of the line below. Then, find the slope.



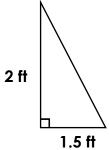
Compare each pair of numbers using <, > or =

$$\sqrt{8}$$
 $\bigcirc 2\frac{1}{3}$

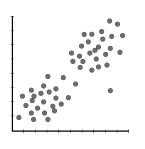
$$-\sqrt{10}$$
 $\bigcirc -\pi$

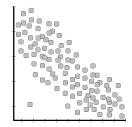
$$-0.25 \bigcirc -\frac{3}{12}$$

Find the length of the missing side. Show all work.



Identify the relationship between the data sets.





Name:

SUMMER MATH REVIEW Week Ten

KUANOK

Evaluate each expression.

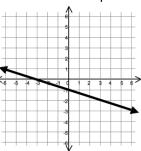
$$\sqrt[3]{-216} =$$

$$\sqrt[3]{\frac{8}{64}} =$$

$$-\sqrt[3]{-27} =$$

MESDAY

Write an equation of the line in slope-intercept form.



Compare each pair of numbers using <, > or =

Find the distance between (-4,-8) and (6,5).

$$\sqrt{15}$$
 \bigcirc $3\frac{1}{3}$

$$\sqrt{9}$$
 $\bigcirc \pi$

$$-2.1\bigcirc -\sqrt{4}$$

LIMBSONA MEDNESONA

Show whether the triangle is a right triangle or not.

18, 80, 81