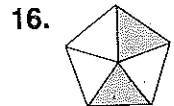
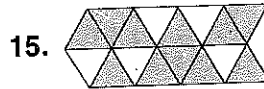
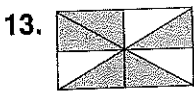
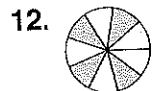
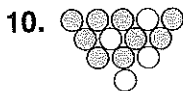
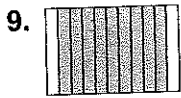
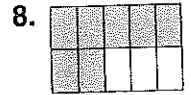
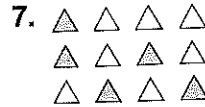
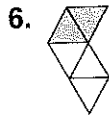
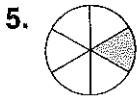
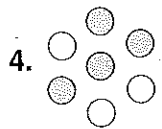
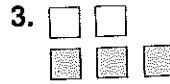
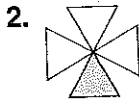
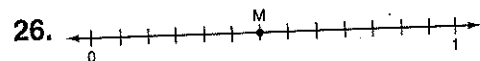
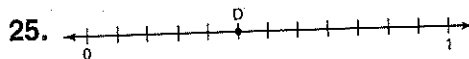
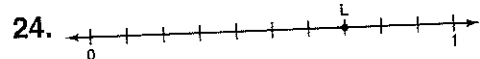
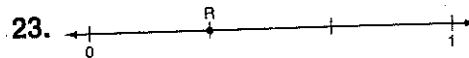
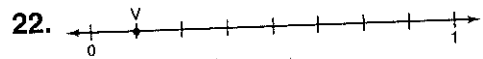
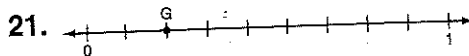
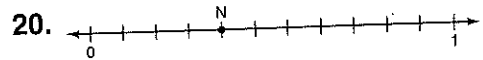
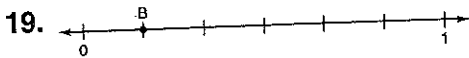
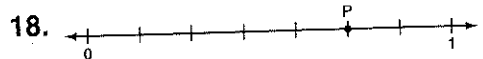
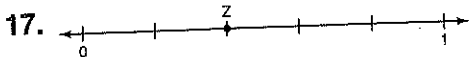


PRACTICE • Introduction to Fractions

Write a fraction for the shaded part.



Write a fraction for the point.



Solve.

27. There are 8 lockers. If 3 are empty, what fraction of the lockers is being used?

28. There are 10 desks. Students are working at 7 of them. What fraction is not being used?

29. Sandy's pizza was sliced into 12 equal pieces. Five of the slices had onions. What fraction did not have onions?

30. There are 10 friends at a party. Each friend wants 2 slices of pizza. If each pizza has 6 slices, how many are needed?

Name: _____

Algebra I
Exponential Growth and Decay

Week 6 assignment

Ms. Deciga adecigasanchez@mpisd.net
Ms. Ramirez nramirez@mpisd.net
Mrs. Orona rorona@mpisd.net
Mr. Gonzalez rgonzalez@mpisd.net

Exponential Growth and Decay Formula:

$$y = ab^x$$

Initial Starting Value (or y-intercept) points to a .
of times it grows or decays points to x .
Growth/Decay Factor points to b .

1. A bank account earning annual compound interest was opened, and no additional deposits or withdrawals were made after the initial deposit. The balance in the account after x years can be modeled by $b(x) = 850(1.025)^x$.

Which statement is the best interpretation of one of the values in this function?

- F The initial balance of the account decreases at a rate of 97.5% each year.
- G The balance in the account increases at a rate of 2.5% each year.
- H The initial balance of the account was \$1,025.
- J The balance in the account at the end of one year is \$850.

The table contains some points on the graph of an exponential function.

2.

x	y
0	0.0625
1	0.25
2	1
3	4

Based on the table, which function represents the same relationship?

- F $q(x) = (0.25)^x$
- G $q(x) = 256(0.25)^x$
- H $q(x) = 0.0625(4)^x$
- J $q(x) = 0.5(4)^x$

3. Which statement about the graph of $y = 8(0.25)^x$ is true?

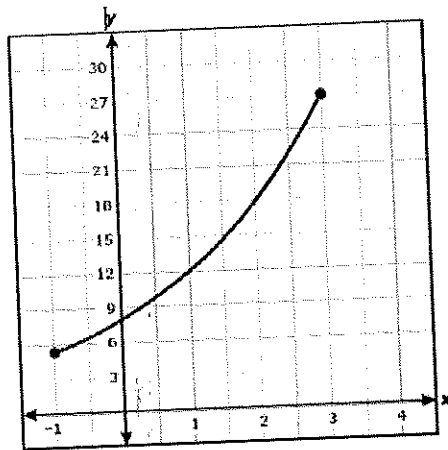
- F The coordinates of the x -intercept are $(0.25, 0)$.
- G The coordinates of the y -intercept are $(0, 8)$.
- H The equation of the asymptote is $x = 0$.
- J The graph includes the point $(2, 1)$.

Name: _____

Algebra I
Exponential Growth and Decay

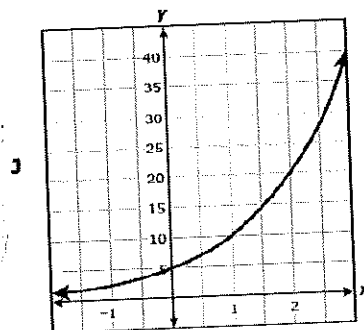
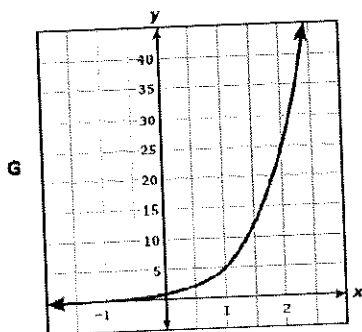
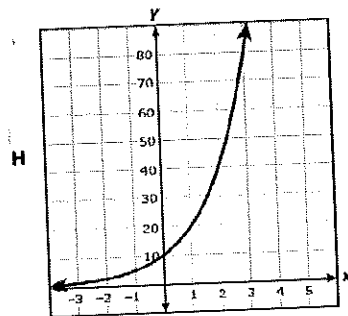
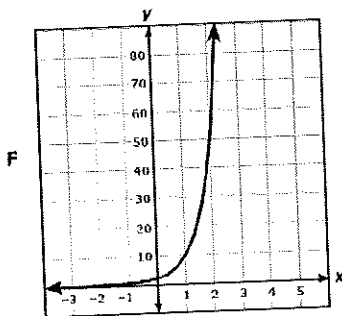
Week 6 assignment

4. What appears to be the domain of the part of the exponential function graphed on the grid?



- A $-1 \leq x \leq 3$
- B $-1 \leq y \leq 3$
- C $5.3 \leq x \leq 27$
- D $5.3 \leq y \leq 27$

5. Which graph best represents $f(x) = 2(5)^x$?



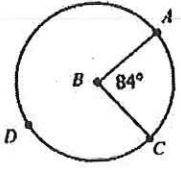
6. What is the y-intercept of the exponential function $y = 23(0.98)^x$?

- A (0, 23)
- B (0, 22.54)
- C (0, 0.98)
- D (0, 0)

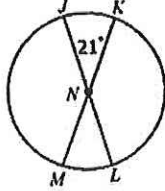
hcampbell@mpisd.net
 oherandez@mpisd.net
 crussell@mpisd.net
 dwoods@mpisd.net

Mr. Hernandez
 remind : @geohdz
 code :

GEOMETRY

Main Ideas/Questions	Notes
Central Angles & Arc Measures 	<ul style="list-style-type: none"> A central angle is an angle with its vertex at the <u>center</u> of the circle and its two sides are <u>radii</u>. The sum of all central angles in a circle is <u>360°</u>. Example: <u>$\angle ABC$</u> The degree of the arc formed by the endpoints of a central angle is <u>equal</u> to the degree of the central angle. <p>$m\widehat{AC} = 84^\circ$; $m\widehat{ADC} = 276^\circ$</p>

Directions: Find each angle and arc measures.

1. 

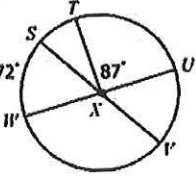
$$m\widehat{JK} = 21^\circ$$

$$m\angle JNM = 159^\circ$$

$$m\widehat{KL} = 159^\circ$$

$$m\widehat{JKM} = 201^\circ$$

$$m\widehat{MKL} = 339^\circ$$

2. 

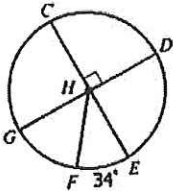
$$m\angle UXV = 72^\circ$$

$$m\widehat{ST} = 21^\circ$$

$$m\widehat{WV} = 108^\circ$$

$$m\widehat{TW} = 93^\circ$$

$$m\widehat{TVW} = 267^\circ$$

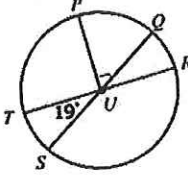
3. 

$$m\widehat{CD} = 90^\circ$$

$$m\widehat{FD} = 124^\circ$$

$$m\widehat{DCF} = 236^\circ$$

$$m\widehat{GDF} = 304^\circ$$

4. 

$$m\widehat{PQ} = 71^\circ$$

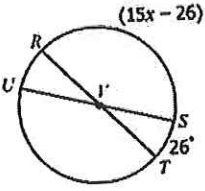
$$m\widehat{SR} = 161^\circ$$

$$m\widehat{QRT} = 199^\circ$$

$$m\widehat{PSR} = 270^\circ$$

$$m\widehat{PS} = 109^\circ$$

Directions: Find each value or measure.

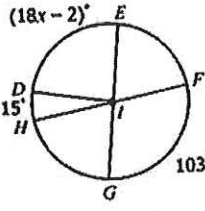
5. 

$$15x - 26 = 154$$

$$15x = 180$$

$$x = 12$$

$x = 12$

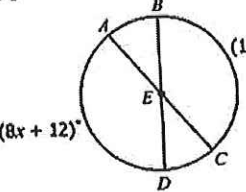
6. 

$$18x - 2 = 88$$

$$18x = 90$$

$$x = 5$$

$x = 5$

7. 

$$10x - 22 = 8x + 12$$

$$2x - 22 = 12$$

$$2x = 34$$

$$x = 17$$

$$x = 17$$

$$m\widehat{AD} = 148^\circ$$

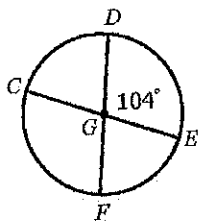
$$m\widehat{CD} = 32^\circ$$

$$m\widehat{BDC} = 212^\circ$$

*remember a straight angle (line) has a measure of 180° *

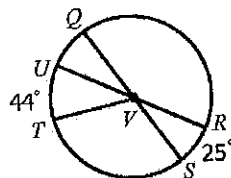
Directions: Find the following arc measures.

1.



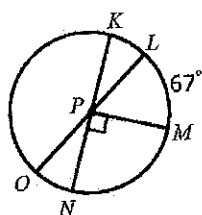
- $m\widehat{DE} =$ _____
- $m\widehat{FE} =$ _____
- $m\widehat{DEF} =$ _____
- $m\widehat{CFD} =$ _____
- $m\widehat{DFE} =$ _____

2.



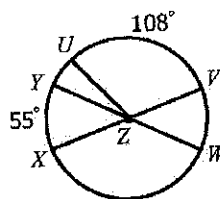
- $m\widehat{TQ} =$ _____
- $m\widehat{QR} =$ _____
- $m\widehat{TS} =$ _____
- $m\widehat{SOR} =$ _____
- $m\widehat{RQT} =$ _____

3.



- $m\widehat{KL} =$ _____
- $m\widehat{LON} =$ _____
- $m\widehat{OM} =$ _____
- $m\widehat{KNL} =$ _____
- $m\widehat{NML} =$ _____

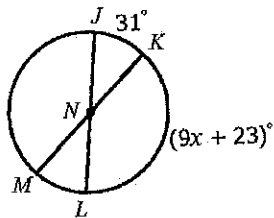
4.



- $m\widehat{YU} =$ _____
- $m\widehat{XW} =$ _____
- $m\widehat{XVW} =$ _____
- $m\widehat{VW} =$ _____
- $m\widehat{YWU} =$ _____

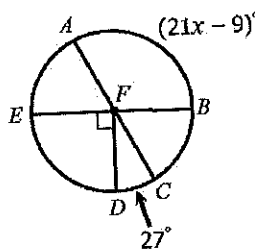
Directions: Find the value of x .

5.



$x =$ _____

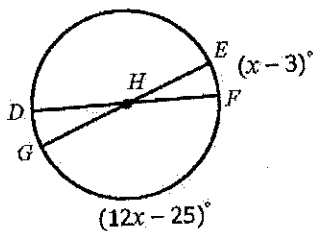
6.



$x =$ _____

Directions: Find the value of x and each arc measure.

7.



- $x =$ _____
- $m\widehat{DE} =$ _____
- $m\widehat{EF} =$ _____
- $m\widehat{DFG} =$ _____

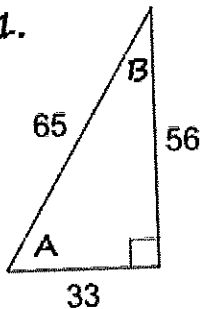
Coach Woods and Mr. Morris Math Models Week 6 Trig Test

Name: _____

Period _____

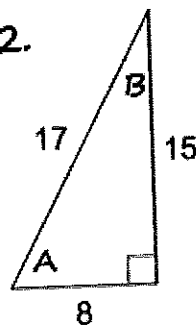
Fill in the charts below for the following triangles:

1.



	Angle A	Angle B
Sin		
Cos		
Tan		
	°	°

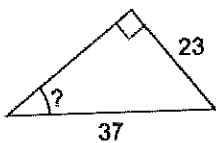
2.



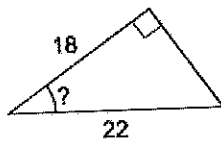
	Angle A	Angle B
Sin		
Cos		
Tan		
	°	°

Find the measure of the missing angle (round to one decimal place):

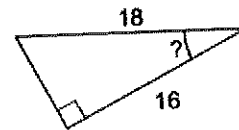
3)



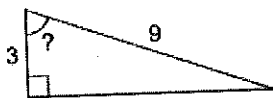
4)



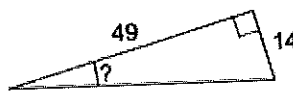
5)



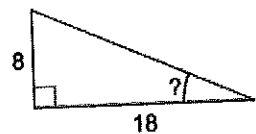
6)



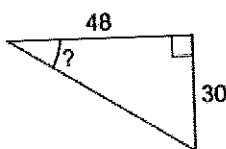
7)



8)



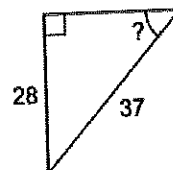
9)



10)

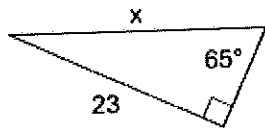


11)

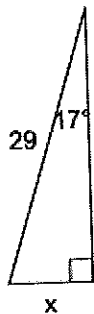


Find the measure of the missing side (round to the nearest whole number):

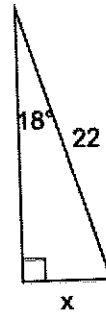
12)



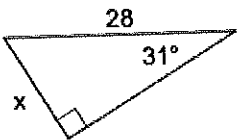
13)



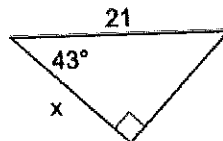
14)



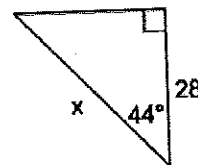
15)



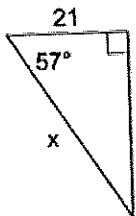
16)



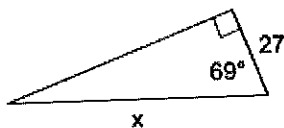
17)



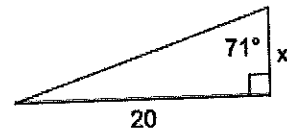
18)



19)



20)



*Key will be on REMIND

Algebra2/Pre-Calculus Assignment6

J. Blackstone email: jblackstone@mpisd.net

T. Rolf email: trolf@mpisd.net

H. Campbell email: hcampbell@mpisd.net

C. Berend email: cberend@mpisd.net

Topic: Direct/Indirect Variation

Resources: Khan Academy "Direct and Inverse Variation"

<https://www.youtube.com/watch?v=92U67CUy9Gc>

Examples: Find the variation constant (k) and write the equation of variation.

Ex1: y varies directly as x, and y=54 when x=12

directly $y = kx$

$$\frac{54}{12} = \frac{k \cdot \cancel{12}}{\cancel{12}}$$

$$k = \frac{9}{2} \text{ or } 4.5$$

Therefore

$$y = \frac{9}{2}x$$

or

$$y = 4.5x$$

Ex2: y varies inversely as x, and y=3 when x=12

inversely $y = \frac{k}{x}$

$$12 \cdot 3 = \frac{k}{\cancel{12}} \cdot \cancel{12}$$

$$k = 36$$

Therefore

$$y = \frac{36}{x}$$

Exercises: Find the variation constant (k) and write the equation of variation.

- 1) y varies directly with x, and y = -4 when x = 2
- 2) y varies inversely with x, and y = 40 when x = 16
- 3) y varies inversely with x, and y = 7 when x = -4
- 4) y varies directly with x, and y = 15 when x = -18
- 5) y varies directly with x, and y = 75 when x = 25

wbardeley@mpisd.net

Analyzing Numerical Data: Using Ratios

AQR, Monday, ~~April 20~~, 2020

May 4

Name _____ Period _____

Ratios in the Media (continued)

Using Pythagorean Theorem and the steps you used in last week's assignment, complete the following. You may use these videos as reference: <https://youtu.be/D4RflbQ-Y-E> and <https://youtu.be/M7lqr6zbK4>

1. Below is the Iphone 6s and 6s plus.



Find the **width and height** of these screens given that the Iphone 6s has a 4.7" (11.94cm) diagonal and the Iphone 6s plus has a 5.5" (13.97cm) diagonal. The aspect ratio of both is 16:9.

Find the **area** of both screens.

When shows that were made in one aspect ratio are shown on televisions that have a different aspect ratio, black bars of equal width cover a portion of the screen. Portions of the screen are not needed to project images that were created with different aspect ratios.

5. The picture below is a letterboxed image with an aspect ratio of 16:9 displayed on a screen with an aspect ratio of 4:3. What percent of the screen's area is occupied by the image? Justify your answer.



6. The picture below shows a pillarboxed 4:3 image displayed on a 16:9 screen. What percent of the screen's area is occupied by the image? Justify your answer.



Dual Credit Algebra II Mrs. Russell

Info for at Home Assignments

Week 6

Hi guys! I hope everything went well last week. All of our assignments will now be located in MyMathLab. You will need to be sure that you are checking MML, Remind, and your email (the one that you set up in MML for our communications) REGULARLY for messages for me. Please be sure that you are watching the deadlines for your assignments.

Have a great week! Stay healthy!

Mrs. Russell

AP Statistics Mrs. Russell

Info for at Home Assignments

Week 6

Hi guys! I hope everything went well last week. I will be sending your assignments this week and all following weeks on Remind and on your email. Please be sure to check both places regularly for messages from me.

Have a great week! Stay healthy!

Mrs. Russell