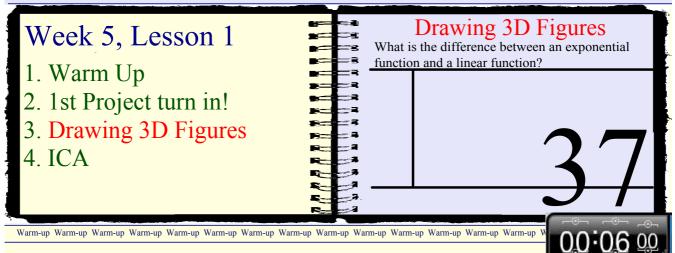
## What is the difference between an oo:00 oo exponential function and a linear function?

Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question



Warm Up: \*DUE\* Idea! 3rd quarter project tracker.xlsx

- 1 Use the quadratic function  $y = -4(x-2)^2 + 5$  to identity the vertex, domain and range. Is the vertex a max or min?
  - 2 Sketch the graph of  $y = 4(2)^{x-2} + 5$  identify the inflection point and horizontal asymptote.
- 3 You buy a new house for \$180,000. The value of the house decreases by about 20% annually. Write an exponential decay model for the value of the car. Use the model to estimate the value after 4 years.
  - 4 Compare and contrast the two given functions  $y=x^2$  and y=(x-2)+8

1 Use the quadratic function  $y = -4(x-2)^2 + 5$  to identity the vertex, domain and range. Is the vertex a max or min?

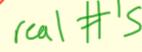


Circle one:

Minimum or Maximum

Vertex: (

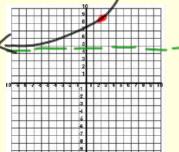
Domain:



Range:



2 Sketch the graph of  $y = 4(2)^{x-2} + 5$  identify the inflection point and horizontal asymptote.



4

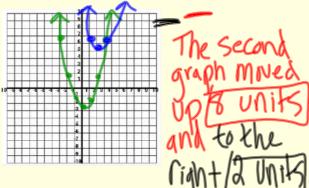
(2,9)

3You buy a new house for \$180,000. The value of the house decreases by about 20% annually. Write an exponential decay model for the value of the car. Use the model to estimate the value after 4 years.

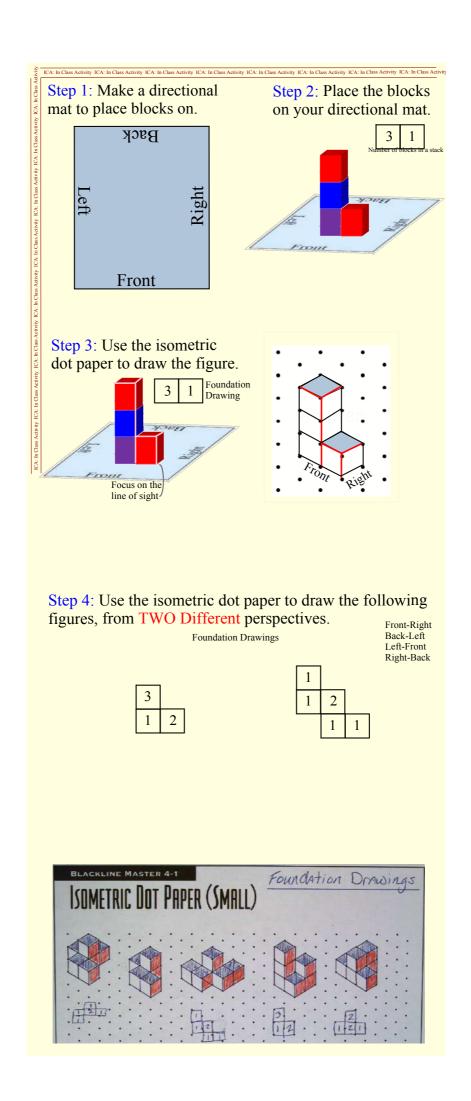
0 = 5 tarting = 180,000 b = Change = (1-r) = (1-20) = 80x = 4 years

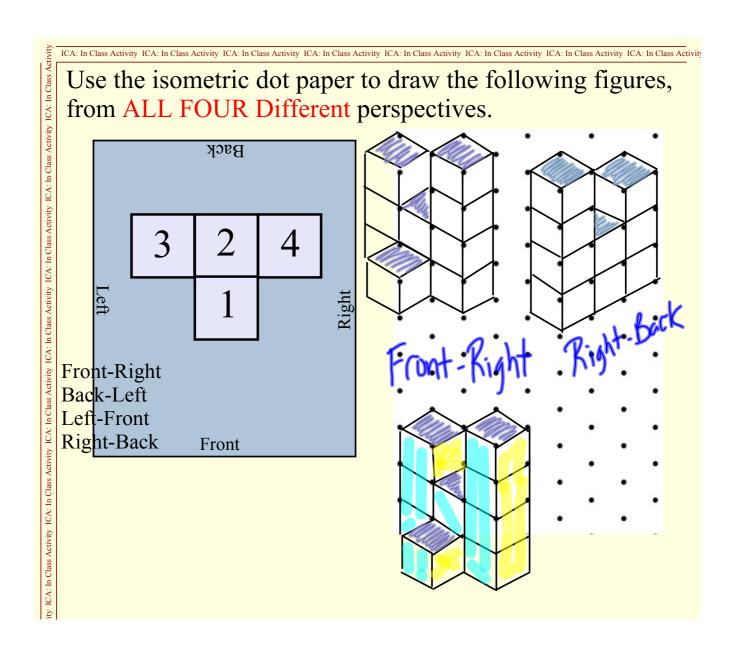
The Value of the house after 4 years is \$73,728 Compare and contrast the two given functions

 $y = x^2$  and  $y = (x-2)^2 + 8$ 



TOTAL In Class Activity ICA: In Class Activit





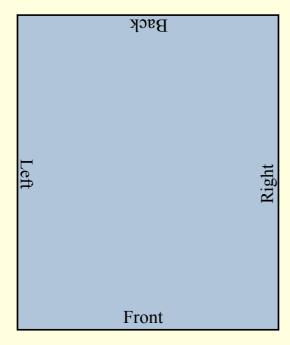
ass Activity ICA: In Class Activity ICA: In C

ICA: In Class Activity ICA: In Class Activity

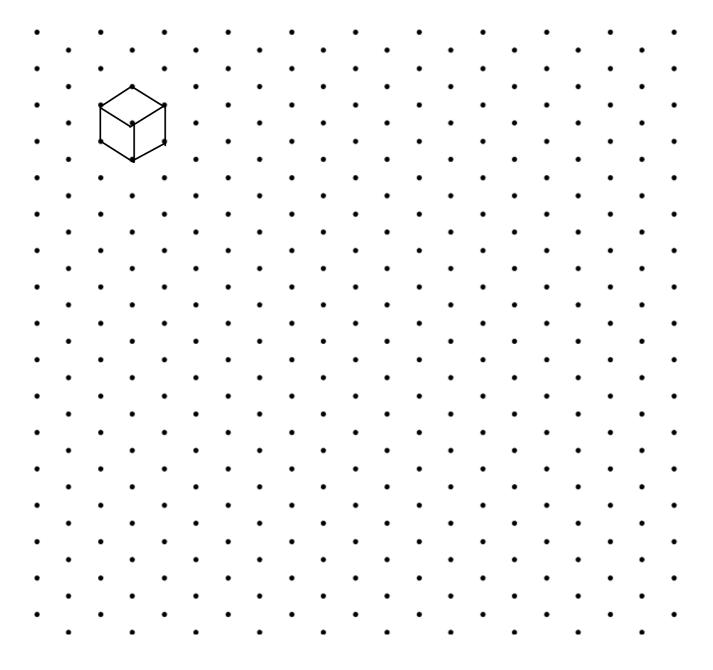
#### Make your own design using 10 blocks

Represent your design using a foundational drawing Use the isometric dot paper to draw the following figures,

from ALL FOUR Different perspectives.

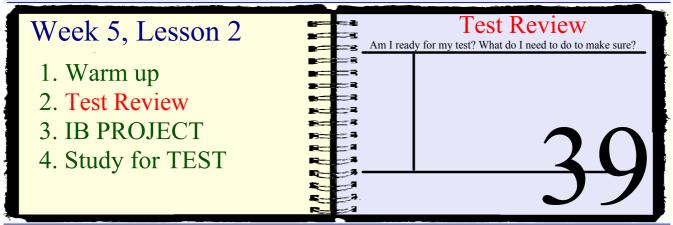


Front-Right Back-Left Left-Front Right-Back



### Am I ready for my test? What do I need to do to make sure?

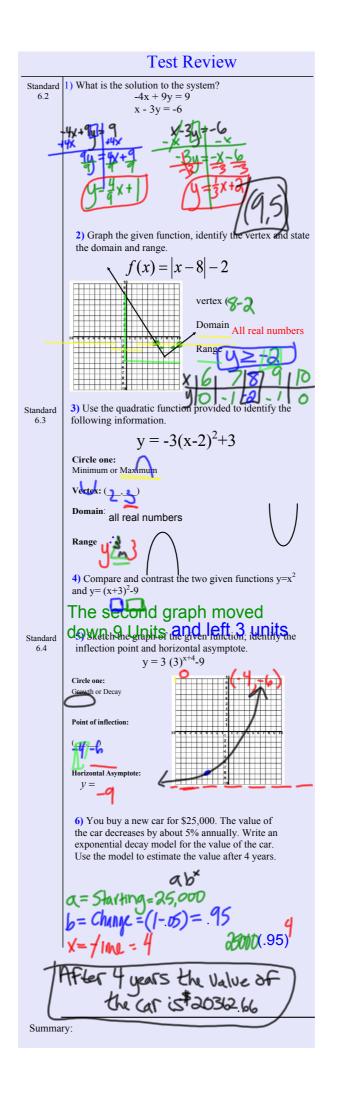
Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question

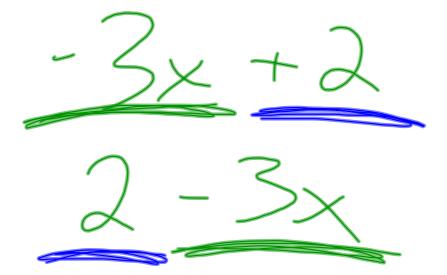


Warm-up Warm-u

#### Quick Write:

- 1) Up to this point what have you done to study and prepare for your test?
- 2) This test has 5 standards on it. What are you most worried about and least worried about.
- 3) What are the 5 standards on the test?

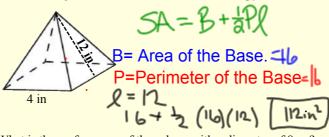




#### chittenden@phoenixunion.org

#### Standard 5.5a

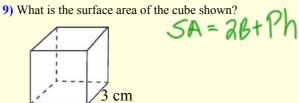
7) The pyramid shown has a square base and faces that are isosceles triangles. What is the surface area of the pyramid?



5A= 4r27

8) What is the surface area of the sphere with a diameter of 8cm?





#### Standard 5.5b

10) What is the volume of the cone with a radius of 8 cm and a height of 4 cm?

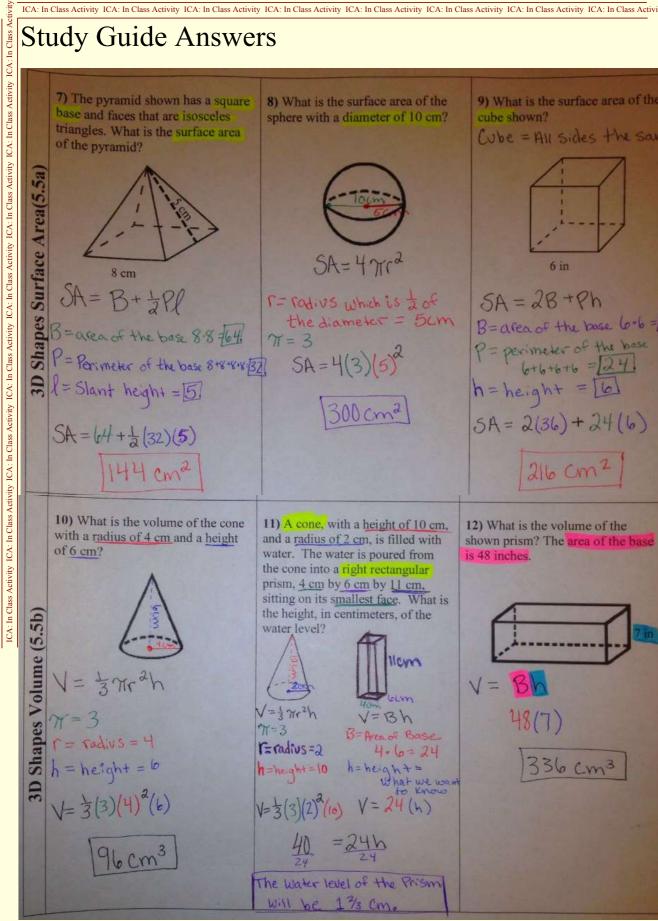
11) A cone, with a height of 12 cm, and a radius of 4 cm, is filled with water. The water is poured from the cone into a right rectangular prism, 4 cm by 10 cm by 17 cm, sitting on its smallest face. What is the height, in centimeters, of the water level?

12) What is the volume of the shown prism? The area of the base is 24 inches.



ICA: In Class Activity **Study Guide Answers** 2) Graph the given function, identify the vertex and 1) What is the solution for the system? state the domain and range. -7x + v = -19-2x+3y=-19Vertex: (-1.4) Domain: Aller | now 4) Compare and contrast the two given functions 3) Use the quadratic function provided to identity the following information.  $y = x^2$  and  $y = (x+5)^2 + 2$ ?  $y=2(x+3)^2-3$  (Plug into Calc) (Plug both in to calc) Circle one: Minimum or Maximum Vertex: (-3,-3) (G-Solv) - (Min) Domain: All real numbers Range:  $y \ge -3$ 6 points 6 points 5) Sketch the graph of the given function; identify the 6) You buy a new car for \$30,000. The value of the car decreases by about 10% annually Write an inflection point and horizontal asymptote. exponential decay model for the value of the car. Use  $v = 2(2)^{x+4} - 8$ the model to estimate the value after 6 years. xponential (6.4 a=30,000 b= (.90) x=6 Circle one: Growth or Decay 30,000(.9)6 Point of inflection: The valve of the Car after loyears Would be about \$15,943.23. **Horizontal Asymptote:** 6 points 6 points

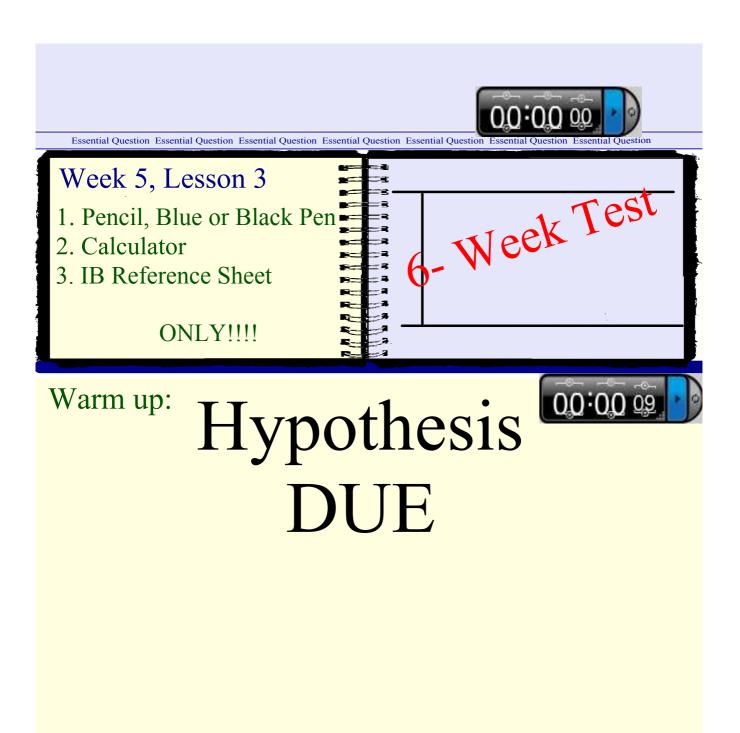
#### Study Guide Answers



Tutoring Work/ Homework Tutori

#### Tutoring/ Homework:

# Make sure your Study Guide is completed



# Am I following along with the due dates of the project? Essential Question Essential Que

Warm-up Warm-u

Warm-up: Answer the following questions.



# Vocabulary Quiz

UNIT 5A VOCABULARY QUIZ.docx

# Project Plan Turn in Peer edit 1.docx Standard Your task: Switch your paper with someone else. Peer edit them!! Forget or not due it? Heres your assignment...have fun! Worksheet for no project people.pdf

Closure Closur

3rd quarter project tracker.xlsx

Peer edit 1.docx

UNIT 5A VOCABULARY QUIZ.docx

Worksheet for no project people.pdf