

GUIDED NOTES – Lesson 6-1a

Graphing Exponential Functions

Name: _____ Period: ____

OBJECTIVE: I can identify the types of exponential functions, as well as evaluate and graph them.

Exponential functions have the form: _____ ; where _____ , and x is any real number.

Domain: _____

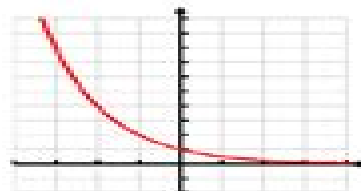
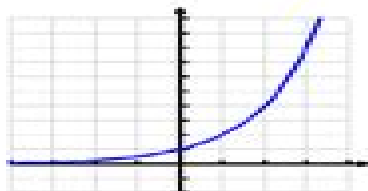
Range: _____

There are two basic types of exponential functions...

This type is a function.

$$f(x) = b^x$$

Where



This type is a function.

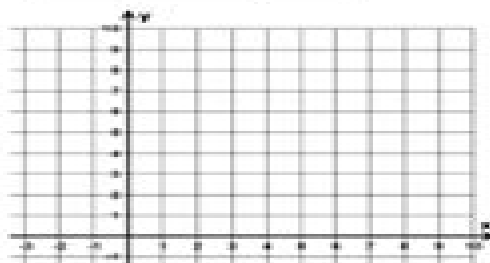
$$f(x) = b^x$$

Where

To graph exponential functions, make a table, plot the points and connect them with a smooth curve.

$$f(x) = 2^x$$

x	f(x)
-2	
-1	
0	
1	
2	
3	

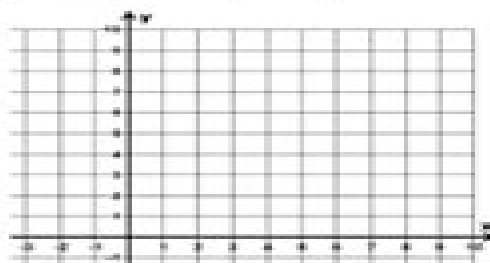


x-intercept: _____

y-intercept: _____

$$f(x) = 4^x$$

x	f(x)
-2	
-1	
0	
1	
2	
3	

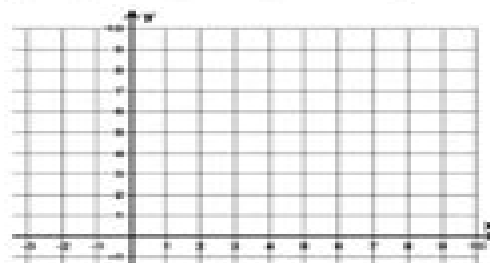


x-intercept: _____

y-intercept: _____

$$f(x) = (3)2^x$$

x	f(x)
-2	
-1	
0	
1	
2	
3	



x-intercept: _____

y-intercept: _____

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web nov 12 2023 the addition of vectors is accomplished geometrically but not algebraically vector quantities should behave as independent of each other quantities before the addition from the vector addition we only conclude the resultant of a number of vectors propagated on a body from vector addition we obtain the resultant vector which is

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web addition of three or more right angle vectors as our first example consider the following vector addition problem example 1 a student drives his car 6 0 km north before making a right hand turn and driving 6 0 km to the east finally the student makes a left hand turn and travels another 2 0 km to the north

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web vector addition is one of the most common vector operations that a student of physics must master when adding vectors a head to tail method is employed the head of the second vector is placed at the tail of the first vector and the head of the

third vector is placed at the tail of the second vector and so forth until all vectors have been

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web if the vectors are in the component form then the vector sum formula is $a_1 b_1 a_2 b_2 a_3 b_3$ if the two vectors are arranged by attaching the head of one vector to the tail of the other then their sum is the vector that joins the

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web answer according to the parallelogram law of vector addition if two vectors \vec{a} and \vec{b} represent two sides of a parallelogram in magnitude and direction then their sum $\vec{a} + \vec{b}$ the diagonal of the parallelogram through their common point in magnitude and direction

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web nov 10 2023 vector addition is the operation of adding two or more vectors together into a vector sum the so called parallelogram law gives the rule for vector addition of two or more vectors for two vectors a and b the vector sum $a + b$ is obtained by placing them head to tail and drawing the vector from the free tail to the free head

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web nov 7 2023 the addition of physical quantities through mathematical operations is called vector addition vector addition involves only the vector quantities and not the scalar quantities vector quantities are added to determine the resultant direction and magnitude of

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web vector addition can be defined as the procedure of adding two or more vectors vector addition formula for given points $a_1 b_1 a_2 b_2$ according to the parallelogram law if two vectors can be represented as two adjacent sides from a common vertex and then completed as if they are forming a parallelogram then the sum can be

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web nov 9 2023 vector addition is commutative by this principle the order of vectors to be added does not impact the result of the addition let two vectors p and q be added together then $p + q = q + p$ vector addition is distributive it suggests the sum of two vectors equals the sum of the scalar times of the two vectors singularly

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web oct 16 2023 vector addition is a mathematical operation that combines two or more vectors to produce a new vector

called resultant vector while we can simply add any two scalar quantities but while adding the two vectors we need to be careful about their direction which are given by their unit vectors