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Problems With  
Solutions

# Exponential Function Problems With Solutions

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## SOLVING EXPONENTIAL EQUATIONS

If it is growth function,  
we will have  $r > 1$ . If  
it is decay function, we  
will have  $0 < r < 1$ .

Exponential growth and  
decay word problems -  
Examples. To have

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better understanding on  
"Exponential growth  
and decay word  
problems", let us look at  
some examples.

Example 1 : David owns  
a chain of fast food  
restaurants that  
operated 200 stores in  
1999.

The complex  
exponential - MIT  
OpenCourseWare

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Example Question #2 :  
Solve Exponential

Decay Problems The exponential decay of an element is given by the function In this function, is the amount left after days, and is the initial amount of the element.

Word Problems with  
Exponential Functions  
Previous section

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Negative and Fractional  
Exponents Next section

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27, 2019

College Algebra

Problems With Answers

- sample 3 ...

Therefore, the solution



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to the problem  $8 \cdot 4^x + 1 = 205$  is  $x \approx 0.389957$ .

Now that we have looked at a couple of examples of solving exponential equations with different bases, let ' s list the steps for solving exponential equations that have different bases.

Exponential Functions -  
Problem Solving |

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Brilliant Math ...

Find the populations  
when  $t = t' = 19$  years.

Use any of the function  
P1 or P2 since they are  
equal at  $t = t'$   $P1(t') =$   
 $100 e^{0.013 \cdot 19}$   $P1(t')$  is  
approximately equal to  
128 thousands. For  
checking, the graphical  
solution to the above  
problem is shown below.  
Question 4 The amount  
A of a radioactive

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substance decays  
according to the  
exponential function

## Exponential Growth and Decay Worksheets - DSoftSchools

Improve your math  
knowledge with free  
questions in  
"Exponential growth  
and decay: word  
problems" and  
thousands of other math

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skills.

## Exponential Word

Problems - Purplemath

Here is a set of practice problems to accompany the Logarithm

Functions section of the Exponential and

Logarithm Functions

chapter of the notes for

Paul Dawkins Algebra

course at Lamar

University.

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SparkNotes: Problems With  
Solutions

Exponential Functions:  
Problems

Some of the worksheets below are Exponential Growth and Decay Worksheets, Solving exponential growth/decay problems with solutions, represent the given function as exponential growth or exponential decay,

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Word Problems, ...

## Problems With

Solutions  
Exponential Equations

– examples of  
problems with solutions

Exponential and  
Logarithmic Functions  
and their Graphs :

Properties of an  
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properties of a  
logarithmic function,  
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Solutions  
Logarithmic  
Expressions, Using the  
Change of Base  
Formula to Find  
Approximate Values of  
Logarithms, ...

Exponential Function  
Problems With  
Solutions

Exponential functions  
are used to model

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relationships with exponential growth or decay. Exponential growth occurs when a function's rate of change is proportional to the function's current value. Whenever an exponential function is decreasing, this is often referred to as exponential decay. To solve problems on this page, you should be



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familiar ...

Exponential Functions -  
She Loves Math  
Exponential Equations  
– examples of  
problems with solutions  
for secondary schools  
and universities

Solving Exponential and  
Logarithmic Equations  
Here is a set of practice  
problems to accompany

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the Exponential  
Functions section of the  
Exponential and  
Logarithm Functions  
chapter of the notes for  
Paul Dawkins Algebra  
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Exponential Functions  
Questions with  
Solutions

This section covers:  
Introduction to

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Exponential Functions  
Parent Graphs of  
Exponential Functions  
Transformations of  
Exponential Functions  
Writing Exponential  
Equations from Points  
and Graphs Exponential  
Function Applications  
Exponential Word  
Problems Solving  
Exponential Functions  
by Matching Bases  
Factoring and Solving

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with Exponents (in  
Problems With  
Section) Exponential  
Regression ...

Algebra - Logarithm  
Functions (Practice  
Problems)  
College Algebra  
Problems With Answers  
sample 3 : Exponential  
and Logarithmic  
Functions. College  
algebra problems on

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logarithmic and exponential function with answers, are presented along with solutions are at the bottom of the page. Let the logarithmic function  $f$  be defined by  $f(x) = 2\ln(2x - 1)$ .

## Solving Exponential Equations

The following diagram shows the derivatives of

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exponential functions.

Scroll down the page for  
more examples and

solutions on how to use  
the derivatives of  
exponential functions.

In general, an  
exponential function is  
of the form.  $f(x) = a^x$   
where  $a$  is a positive  
constant. Derivative of  
the Natural Exponential  
Function

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IXL - Exponential growth and decay: word problems (Algebra ...

6. The complex exponential The exponential function is a basic building block for solutions of ODEs.

Complex numbers expand the scope of the exponential function, and bring trigonometric functions under its sway.

6.1. Exponential

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solutions. The function  
it is de fi ned to be the  
so lution of the initial  
value problem  $x' = x$ ,  
 $x(0) = 1$ .

Algebra - Exponential  
Functions (Practice  
Problems)

SOLVING  
EXPONENTIAL  
EQUATIONS.  
SOLVING  
EXPONENTIAL



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**EQUATIONS .** To solve an exponential equation, take the log of both sides, and solve for the variable. ... If you want to review the answer and the solution, click on answer.

Problem 1: Solve for  $x$  in the equation .

Answer. Problem 2: Solve for  $x$  in the equation . Answer.

Problem 3: Solve for  $x$

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Function  
...  
Problems With  
Solutions  
Calculus - Exponential  
Derivatives (examples,  
solutions ...

How to solve word  
problems involving  
exponential functions.

Exponential growth and  
decay word problems  
Exponential word  
problems almost always  
work off the growth /

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decay formula,  $A = Pe^{rt}$ , where "A" is the ending amount of whatever you're dealing with (money, bacteria growing in a petri dish, radioactive decay of an element highlighting your X-ray), "P" is the beginning amount of that same "whatever", "r" is the growth or decay rate, and "t" is time.

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Problems With  
Solutions With  
Exponential and  
Logarithmic Functions  
Worksheets ...

Solving Exponential and  
Logarithmic Equations

1. To solve an exponential equation, first isolate the exponential expression, then take the logarithm of both sides of the equation and solve for the variable. 2. To solve

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a logarithmic equation,  
first isolate the  
logarithmic expression,  
then exponentiate both  
sides of the equation  
and solve for ...

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