

# FUNCTION TRANSFORMATIONS NOTES

**IDENTIFYING FUNCTION TRANSFORMATIONS**

Directions: State the parent function used below for the transformations.

Parent Function:	$y = x^2$
Transformation:	Vertical Stretch by 3
Equation:	$y = 3x^2$

Parent Function:	$y = x^2$
Transformation:	Reflection across the x-axis
Equation:	$y = -x^2$

Parent Function:	$y = x^2$
Transformation:	Horizontal Stretch by 2
Equation:	$y = x^2/2$

**TRANSFORMATIONS OF FUNCTIONS**

$y = af(bx - c) + d$

Directions: Identify the parent function, transformations, and write the new equation.

Vertical Stretch by 2	Vertical Compression by 1/2
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Parent Function: $y =  x $	Parent Function: $y =  x $
Transformation: Vertical Stretch by 2	Transformation: Vertical Compression by 1/2
Equation: $y = 2 x $	Equation: $y =  x /2$

**GRAPHING FUNCTION TRANSFORMATIONS**

Types of Transformations:

Vertical Translation	$y = a(x) + b$
Horizontal Translation	$y = a(bx)$
Horizontal Stretch	$y = a(bx)$
Horizontal Compression	$y = a(bx)$
Reflection over the x-axis	$y = -a(x)$
Reflection over the y-axis	$y = a(-x)$

Directions: Complete the transformation table and use it to graph the absolute value equations.

Equation	Parent Function Table	Transformed Table	Graph																												
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**WRITING FUNCTION TRANSFORMATION EQUATIONS**

Directions: Identify the parent function, transformations, and write the new equation.

Parent Function: $y = x^2$	Parent Function: $y = \sqrt{x}$
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Equation: $y = x^2/2$	Equation: $y = \sqrt{2x}$
Parent Function: Horizontal Stretch by 2	Parent Function: Horizontal Stretch by $\sqrt{2}$
Transformations: Horizontal stretch by 2	Transformations: Horizontal stretch by $\sqrt{2}$
Equation: $y = x^2/2$	Equation: $y = \sqrt{2x}$

Directions: Work the equation based on the given parent function and transformations.

Parent Function: Linear	Equation: $y = 2x + 3$
Transformations: Vertical stretch by 2 units	
Parent Function: Quadratic	Equation: $y = x^2$
Transformations: Horizontal stretch by 3 units	
Parent Function: Absolute Value	Equation: $y =  x $
Transformations: Horizontal stretch by 2	

Directions: Given each function and transformation, write the rule to any parent.

Function:  $y = 2x + 3$ , Write a function with a vertical stretch by 2 units.

Equation:  $y = 2(2x) + 3$

Function:  $y = x^2$ , Write a function with a horizontal stretch by 3 units.

Equation:  $y = x^2/3$

Function:  $y = |x|$ , Write a function with a horizontal stretch by 2.

Equation:  $y = |x/2|$

Function:  $y = 2x + 3$ , Write a function with a reflection over the x-axis.

Equation:  $y = -2x - 3$

Function:  $y = 2x + 3$ , Write a function with a reflection over the y-axis.

Equation:  $y = 2(-x) + 3$

Detailed answer keys are included!



# Transformations Of Functions Answer Key Algebra

**Lei Huang**

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Publications United States. National Bureau of Standards,1980      **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards,1978      **Correlation of Studies**

National Education Association of the United States. Committee of Fifteen on Elementary Education,1895      Publications of the National Bureau of Standards United States. National Bureau of Standards,1968      **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1970      **SAT**

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**Physics Of Reality, The: Space, Time, Matter, Cosmos - Proceedings Of The 8th Symposium Honoring Mathematical Physicist Jean-pierre Vigier**

Richard L Amoroso,Louis H Kauffman,Peter Rowlands,2013-09-18 A truly Galilean class volume this book introduces a new method in theory formation completing the tools of epistemology It covers a broad spectrum of theoretical and mathematical physics by researchers from over 20 nations from four continents Like Vigier himself the Vigier symposia are noted for addressing avant garde cutting edge topics in contemporary physics Among the six proceedings honoring J P Vigier this is perhaps the most exciting one as several important breakthroughs are introduced for the first time The most interesting breakthrough in view of the recent NIST experimental violations of QED is a continuation of the pioneering work by Vigier on tight bound states in hydrogen The new experimental protocol described not only promises empirical proof of large scale extra dimensions in conjunction with avenues for testing string theory but also implies the birth of the field of unified field mechanics ushering in a new age of discovery Work on quantum computing redefines the qubit in a manner that the uncertainty principle may be routinely violated Other breakthroughs occur in the utility of quaternion algebra in extending our understanding of the nature of the fermionic singularity or point particle There are several other discoveries of equal magnitude making this volume a must have acquisition for the library of any serious forward looking researchers

St. Petersburg Mathematical Journal ,2006

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