KEY

How can you transform the equation of Parabola 1 into the equation of Parabola 2? Can you slide Parabola 1 in the coordinate plane so that it becomes Parabola 2? Explain.

vertex form

$y = a(x-h)^2 + k$

$0 = a(1-3)^2 - 2$

$0 = a(-2)^2 - 2$

$0 = 4a - 2$

$+2 \qquad +2$

$\dfrac{2}{4} = \dfrac{4a}{4}$

$\dfrac{1}{2} = a$

$y = \dfrac{1}{2}(x-3)^2 - 2$

— v. stretch or compression

quadratic transformations

$k(x) = a \cdot f[b(x-c)]^2 + d$

$\dfrac{1}{b}$ for transformation

* a, b, c, and d mean the same thing as linear transformations
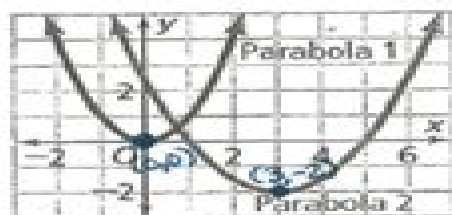
$k(x) = a \cdot f[b(x-c)] + d$

* h. shift right 3
* v. shift down 2
* v. compression by a factor of $\dfrac{1}{2}$

1. Graphing Quadratic Functions with Stretch and Compression

Graph the functions $g(x) = 2x^2$ and $h(x) = (2x)^2$ on the same set of axes as the parent function $f(x) = x^2$. Describe each of the functions as a stretch or compression of the parent function.
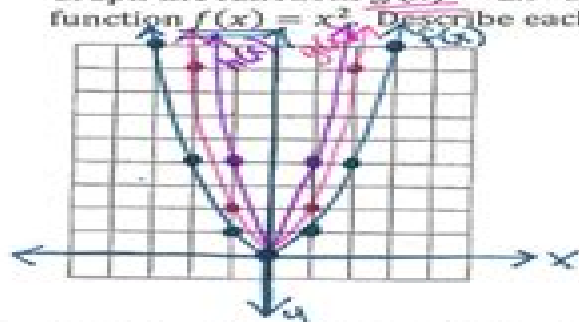
$f(x) = x^2$ parent function

$g(x) = 2x^2$
  v. stretch by a factor of 2

$h(x) = (2x)^2$
  h. compression by a factor of $\dfrac{1}{2}$
  $b = 2 \rightarrow \dfrac{1}{b} = \dfrac{1}{2}$

2. Graphing Translations of $f(x) = x^2$

a. Describe the graph of $g(x) = (x + 8)^2$ as a translation of the graph $f(x) = x^2$.

$c = -8$

h. shift left 8

b. Describe the graph of $h(x) = x^2 - 8$ as a translation of the graph $f(x) = x^2$.

$d = -8$

v. shift down 8

3. Describing a Combination of Transformations

What steps transform the graph of $y = x^2$ to $y = \dfrac{1}{2}(x - 2)^2 - 1$?

$a = \dfrac{1}{2}$ v. compression by a factor of $\dfrac{1}{2}$

$c = 2$ h. shift right 2

$d = -1$ v. shift down 1

Transformations Of Quadratic Functions Key

E Durkheim

Transformations Of Quadratic Functions Key:

Key Maths GCSE David Baker,2002-01-25 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for non specialist useful supplementary ideas and homework sheets **Key Maths GCSE** ,2002 These Teacher Files are designed to supplement and support the material covered at GCSE **Irm Tle Alg Coll Stdts** Decell,2001-08 **Pre-Calculus Workbook For Dummies?** Michelle Rose Gilman,Christopher Burger,Karina Neal,2009-06-24 Get the confidence and the math skills you need to get started with calculus Are you preparing for calculus This easy to follow hands on workbook helps you master basic pre calculus concepts and practice the types of problems you ll encounter in your cour sework You get valuable exercises problem solving shortcuts plenty of workspace and step by step solutions to every problem You ll also memorize the most frequently used equations see how to avoid common mistakes understand tricky trig proofs and much more 100s of Problems Detailed fully worked out solutions to problems The inside scoop on quadratic equations graphing functions polynomials and more A wealth of tips and tricks for solving basic calculus problems **Jacaranda Mathematics 10 for Western Australia, 5e learnON and Print** Catherine Smith,Beverly Langsford Willing,Mark Barnes,Christine Utber,2025-11-24 *Core Mathematics* Greg Attwood,2004 Updated for the 2004 specification these new Core books are in full colour to ease the transition from GCSE to A Level Tailor made for the new specification and written by members of an experienced Senior Examining Team you can be sure they provide everything students need to succeed **Pre-Calculus Workbook For Dummies** Yang Kuang,Michelle Rose Gilman,Elleyne Kase,2011-04-12 This hands on workbook helps students master basic pre calculus concepts and practice the types of problems they ll encounter in the course Students will get hundreds of valuable exercises problem solving shortcuts plenty of workspace thorough explanations and step by step solutions to every problem **Public Key Cryptography - PKC 2007** Tatsuaki Okamoto,Xiaoyun Wang,2007-06-21 This book constitutes the refereed proceedings of the 10th International Conference on Practice and Theory in Public Key Cryptography PKC 2007 held in Beijing China in April 2007 The 29 revised full papers presented together with two invited lectures are organized in topical sections on signatures cryptanalysis protocols multivariate cryptosystems encryption number theoretic techniques and public key infrastructure Information Security and Cryptology Dongdai Lin,Meiqin Wang,Moti Yung,2025-05-02 The two volume set LNCS 15543 and 15544 constitutes revised selected papers of the 20th International Conference on Information Security and Cryptology Inscrypt 2024 held in Kunming China during December 14 16 2024 The 47 full papers presented in these proceedings were carefully reviewed and selected from 156 submissions The papers were organized in the following topical sections Part I Big data and cloud security Foundations of Cryptography Implementation of Cryptosystems Key Exchange AI and Security Security Analysis Privacy enhancing technologies Watermarking Part II Public Key Cryptosystems Security Protocols Analysis

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