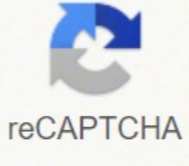




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Function transformations worksheet algebra 2 worksheets answer

Each graphic organizer will come with the parent graph and spaces for domain, range, parentPage 2This is a free lesson plan for an Algebra 2 unit on Functions.This is aligned to the Texas TEKS (2A.2A, 2A.2B, 2A.2C, 2A.2D & 2A.7I) but could be used for anyone looking for a Functions lesson plan for Algebra 2 students.Topics covered include:parent functions (linear, quadratic, absolute value, cubic, cube root & square root)composition of functionsinverse functionsdomain & rangegraphing with transformationsMake your life easier by buying all of the resources mentioned in the lessonPage 3This FREE set of guided notes introduces key features of quadratic functions and graphs to your students. Includes graph of parent function, parent function, domain/range, and blanks for filling in transformations. The full set includes linear, quadratic, square root, cubic, cube root, absolute value, rational, exponential, and logarithmic functions.This activity comes in a printable format, but can easily be added to Google Classroom™ for students to annotate the product for distance learning. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. Also, I added a blank for identifying the domain and range of each function. Students discover roots, x-intercepts, zeros, solutions, axis of symmetry, y-intercept, vertex, minimums & maximums! This works as a perfect introduction to Key Features & Transformations of Quadratics in Vertex or Standard form, or even an introduction to factoring.This product aligns to CCSS HSF-IF.B.4 , HSF-IF.C.7a and TEKS A.7AThis Product Includes4 Student Pages Full Teacher KePage 4Sample of: Graphic organizer for students to use in Algebra 2 and beyond. Students will be able to use these throughout the schooPage 5Students are led through a series of problems which apply trigonometric functions to real life situations. Problem 1 : Submit an equation that will move the graph of the function $y = x^2$ right 4 units.Problem 2 :The equation $y = (x + 3)^2 - 2$ moves the parent function $y = x^2$ right 3 units and down 2 units.Problem 3 : Submit an equation that will move the graph of the function $y = x^2$ down 7 units.Problem 4 : The equation $y = (x-8)^2 + 5$ moves the parent function $y = x^2$ right 8 units and down 5 units.Problem 5 : Submit an equation that will move the graph of the function $y = x^2$ left 2 units and up 6 units.Problem 6 : Which equation will shift the graph of $y = x^2$ left 5 units and up 6 units ?Problem 7 : Submit an equation that will move the graph of the function $y = x^2$ right 3 units up 2 units.Problem 8 : Which equation will shift the graph of $y = x^2$ right 8 units and down 4 units ? Covers Linear, Quadratic, Exponential, Cubic, Logarithmic, Absolute Value, Square Root, and Rational Functions. All rights reserved. You can use a blank copy to give to students and another with the squares cut out so they have to match the graph with the function and domain/range. Students are expected to be able to interpret functions in the context of a problem, write functions, and apply functions to periodic phenomenon. ----- Related products: Introduction to Parent Functions...Notes + Flash Cards Introduction to Parent Functions: Lesson, Posters, Flash Cards Activity Bundle, Transformations of Parent Functions, 50% SAVINGS ParPage 7**UPDATE** I changed the tables to be in ordered pair notation. If you would like to purchase the full set of graphic organizers, click here. WORD PROBLEMSHCF and LCM word problemsWord problems on simple equations Word problems on linear equations Word problems on quadratic equationsAlgebra word problemsWord problems on trainsArea and perimeter word problemsWord problems on direct variation and inverse variation Word problems on unit priceWord problems on unit rate Word problems on comparing ratesConverting customary units word problems Word problems on simple interestWord problems on compound interestWord problems on types of angles Complementary and supplementary angles word problemsDouble facts word problemsTrigonometry word problemsPercentage word problems Profit and loss word problems Markup and markdown word problems Decimal word problemsWord problems on fractionsWord problems on mixed fractionsOne step equation word problemsLinear inequalities word problemsRatio and proportion word problemsTime and work word problemsWord problems on sets and Venn diagramsWord problems on agesPythagorean theorem word problemsPercent of a number word problemsWord problems on constant speedWord problems on average speed Word problems on sum of the angles of a triangle is 180 degreeOTHER TOPICS Profit and loss shortcutsPercentage shortcutsTimes table shortcutsTime, speed and distance shortcutsRatio and proportion shortcutsDomain and range of rational functionsDomain and range of rational functions with holesGraphing rational functionsGraphing rational functions with holesConverting repeating decimals in to fractionsDecimal representation of rational numbersFinding square root using long divisionL.C.M method to solve time and work problemsTranslating the word problems in to algebraic expressionsRemainder when 2 power 256 is divided by 17Remainder when 17 power 23 is divided by 16Sum of all three digit numbers divisible by 6Sum of all three digit numbers divisible by 7Sum of all three digit numbers divisible by 8Sum of all three digit numbers formed using 1, 3, 4Sum of all three four digit numbers formed with non zero digitsSum of all three four digit numbers formed using 0, 1, 2, 3Sum of all three four digit numbers formed using 1, 2, 5, 6 ©All rights reserved. to the actions of the graph. Keywords: trigonometric functions, sine, cosine, tangent, transformations of functions, applications, math, mathematics, high school, functions, period, phase, amplitude, shift, shiftsPage 6FREE DOWNLOAD: Six one-page graphs to display on a bulletin board or on your projector/Smart Board. **UPDATE** I added a blank, "Classify the Transformation:" so students can practice connecting words like stretch, reflect, vertical, horizontal, shift, etc. Thank you for your interest in this product. Posters include a linear, quadratic, cubic, rational, absolute value, and square root function. Previously, students were having trouble understanding that the tables were tables of points. Apart from the stuff given in this section, if you need any other stuff in math, please use our google custom search here. The first slide contains one graph of a monster (f(x)) and a table of v Solutions Problem 1 : Submit an equation that will move the graph of the function $y = x^2$ right 4 units.Solution : If the graph is moved 4 units to the right, we have to subtract 4 from 'x' in the parent function.After having applied the given translation, the function is $y = (x - 4)^2$ Problem 2 :The equation $y = (x + 3)^2 - 2$ moves the parent function $y = x^2$ right 3 units and down 2 units.True or False ?Solution : From the parent function $y = x^2$, if it is moved 3 units right, we will have the function $y = (x - 3)^2$.Further, if it is moved 2 units down, the function will be $y = (x - 3)^2 - 2$.But, the given answer is $y = (x + 3)^2 - 2$.So, it is false.Problem 3 : Submit an equation that will move the graph of the function $y = x^2$ down 7 units.Solution : When we move the graph of the equation $y = x^2$ down 7 units, we will get the graph with the equation $y = x^2 - 7$ Problem 4 : The equation $y = (x-8)^2 + 5$ moves the parent function $y = x^2$ right 8 units and down 5 units.True or False ? Solution : When we move the parent function $y = x^2$ to the right 8 units, we will have the equation $y = (x - 8)^2$.Further, if its moved 5 units down, the equation will be $y = (x - 8)^2 - 5$.But, the given answer is $y = (x - 8)^2 + 5$.So, it is false.Problem 5 : Submit an equation that will move the graph of the function $y = x^2$ left 2 units and up 6 units.Solution : In the given function $y = x^2$, if it is moved 2 units left, we will have the function $y = (x + 2)^2$ Further, if it is moved 6 units up, the function will be $y = (x + 2)^2 + 6$ Problem 6 : Which equation will shift the graph of $y = x^2$ left 5 units and up 6 units ?(a) $y = (x + 6)^2 - 5$ (b) $y = (x + 5)^2 - 6$ (c) $y = (x + 5)^2 + 6$ (d) $y = (x - 5)^2 + 6$ Solution : In the given function $y = x^2$, if it is moved 5 units left, we will have the function $y = (x + 5)^2$ Further, if it is moved 6 units up, the function will be $y = (x + 5)^2 + 6$.So, option "c" is correct.Problem 7 : Submit an equation that will move the graph of the function $y = x^2$ right 3 units up 2 units.Solution : In the given function $y = x^2$, if it is moved 3 units right, we will have the function $y = (x - 3)^2$ Further, if it is moved 2 units up, the function will be $y = (x - 3)^2 + 2$ Problem 8 : Which equation will shift the graph of $y = x^2$ right 8 units and down 4 units ?(a) $y = (x + 8)^2 - 4$ (b) $y = (x + 4)^2 - 8$ (c) $y = (x - 4)^2 + 8$ (d) $y = (x - 8)^2 - 4$ Solution : In the given function $y = x^2$, if it is moved 8 units right, we will have the function $y = (x - 8)^2$ Further, if it is moved 4 units down, the function will be $y = (x - 8)^2 - 4$ So, option "d" is correct. onlinemath4all.com © 2022 Kuta Software.

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