Transformations of logarithmic functions worksheet pdf

So, the graph of g is a refl ection in the y-axis and a horizontal stretch by a factor ofof the graph of f. reciprocal and square root functions, the logarithm has a restricted domain which must be considered when finding the domain of a composition involving a log. (1) log= y (2) log= y (3) log= y (4) log Let the graph of g be a horizontal stretch by a factor of 3, followed by a translationunits up of the graph of f (x) e− x. ExampleFind Worksheet– Logarithmic Functions (§) Convert. Notice that the function is of the form. g(x) = h 4 Sketch a graph of the function f x () = − 3log(x − 2) +Transformations of Logs Any transformed logarithmic function can be written in the form f x a x b k() log()= − +, or f x a x b k() log= − − +()() if horizontally reflected, where x = b is the vertical asymptote. = (e) (f) 1/2(8) = −(49) = Transformations of Exponential and Logarithmic Functions EXAMPLEWriting a Transformed Exponential Function Let the graph of g be a refl ection in the x-axis, Worksheet by Kuta Software LLC AlgebraHW Function Transformations Name____ Date____ Period___ ©v R2E0E1o8r JKGuQtha^ MSwoXfptdw[ahrteH Logarithmic Functions Transformations of Logarithmic Functions YOU WILL NEED ¥ graphing calculator If there is no value of a in a logarithmic function the base ©t Q2q0W1qfKSuBt daK jS lo hfst HwIatrIe R vL8LwCB.E q BAhlcIR 2r jicgah rtsU dr veSs 7e QrCvmekdT eMbafdIe l pw YiHtqh A RIIn hf hitnki tte s BA6l kg feFbGrcaL z2 D.x Worksheet by Kuta Software LLC Kuta SoftwareInfinite AlgebraName____ Graphing Logarithms Date____ Period___ In Example 4(b), notice in the graph that the horizontal translation also shifted the asymptoteunits left, so the domain of g is x >−. the 5(following) =equations fromlogarithmic form into exponential form. Write a rule for g. ExampleFind an equation for the logarithmic function Vanier College Sec V Mathematics Department of Mathematics Worksheet: Logarithmic FunctionFind the value of y. b. Write a rule for gLet the graph of g be a refl ection in the y-axis, followed by a translationunits left of the graph of f (x) log x.

Difficulté **Difficile** | Durée **176 minute(s)**

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Commentaires

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