Chapter 1 : Linear And Exponential Regression Worksheets - Lesson Worksheets

Some of the worksheets displayed are Algebra ii exponential regression work value 10, Secondary mathematics i an integrated approach module 4, Work 1, Regression line work, Algebra 2 honors linear and quadratic regression work, Linear regression work 1, Model fitting with linear regression exponential functions, Work 3.

I intend for this Warm Up to take about 10 minutes. My goal is for students to recognize the pattern of a quadratic function in a table, and to be able to graph the coordinates. As a class, we will discuss the second common difference between output values when reviewing the warm up. Another purpose of this warm up is to remind students that functions found in the real world may have a restricted domain or range. I review the Warm Up in the video below: Warm up-area of a square. I give each student an 8. I label the independent variable x as the number of folds, and the dependent variable y as the number of rectangles formed. I ask the students, "What is the y intercept in this problem? At one fold, there are two rectangles. At two folds, there are four rectangles. At three folds, there are eight rectangles, and so on After five folds, and 32 rectangles, it becomes difficult, and eventually impossible to fold. For my lesson, I changed the output variable of the paper folding activity to be the number of rectangles instead of the thickness of the paper because it is easier to visualize. As a class, we create the t-table of values, plot the graph, and write the equation for the function. I ask the students if they recognize the function from a previous problem that we have done in class. It is the same function as the penny problem introduced in lesson one of this unit. The graph shows a continuous curve for this function, and would be more recognizable if it was showing a discrete graph with distinct points at 0,1 , 1,2 , 2,4 , 3, However, in this lesson, I only use the cards for the collaborative activity from pages S-3 through S-8 for this lesson. There are 11 functions excluding the paper folding situation. Each function is represented with a situation in words, a graph, and an equation. I assign three students to each group, I select homogeneous groups based off of the previous grades in this unit. The answers for the collaborative activity are posted on pages T through T of the lesson. This collaborative activity is meant for students to study as many of the situations as possible and use the key characteristics of each of the functions in depth to match the cards. All of the cards do not have to be completed. If students have difficulty with any of the situations, it will be clarified for them in the class presentation and discussion after the collaborative activity. Finally, I hand the students the other 11 situations, graphs, and equations for each group to match. I set the timer for 20 minutes for the students to match the cards, tape to the poster paper, and write reasons for the matches on the poster. I emphasize for students to focus on the relationship between the independent and the dependent variable. Again, the goal is for each group to discuss the functions in depth, even if all of the functions are not complete. While groups are working, I monitor, provide questioning, and select 3 groups to present one of each of the functions. I select one linear, one exponential, and one quadratic for the groups to present in depth. The class is expected to listen to the presentation, ask questions, provide extra input, and show respect. I allow students to talk in between presentations as other groups set up, but my students are expected to be quiet during the presentation. To complete the activity, I have students individually select a function that was not presented and write a paragraph in detail about that function. I also have them evaluate the function for the specific question on the situation card. I grade this writing assignment as a formative assessment to check for student understanding on the key characteristics of the function that they selected. The student explained the starting point and it as an exponential function, but did not explain that the 20 in the equation represented the room temperature. Some students made the mistake of identifying this problem as a decreasing linear function. I selected this problem on exponential decay because I wanted my students working more problems involving percents. On a recent assessment, several of my students struggled with percents and fractions. I also thought that the problem would attract the interest of those students interested in the medical field. I demonstrate the Exit Slip task in the video below.

Chapter 2 : Fitting quadratic and exponential functions to scatter plots (practice) | Khan Academy

Linear Quadratic Exponential. Showing top 8 worksheets in the category - Linear Quadratic Exponential. Some of the worksheets displayed are Math problems linear quadratic and exponential functions, Benchmark 5 comparing linear exponential and, Linear quadratic and exponential work 1, Comparing linear exponential and quadratic functions, Quadratic exponential and logarithmic functions.

Chapter 3 : Ninth grade Lesson Linear, Exponential, or Quadratic?

High School Linear, Quadratic, Exponential- HSF-LE.A.2 Printable Worksheets And Lessons Function It All Up Step-by-step Lesson - You are given a table and asked to write a linear, quadratic, or exponential function for it.

Chapter 4 : Module 1: Linear, Quadratic and Exponential Regression

Exponential Regression Worksheet racedaydvl.com Linear Regression Worksheet racedaydvl.com Quadratic Regression Worksheet 2 racedaydvl.com

Chapter 5 : Regression Worksheets - Teacher Worksheets

Linear, Quadratic and Exponential Worksheet 1 Table Graph 1 Graph 2 0 2 0 -2 f(x) f(x) 2 4 x x 1 35 2 36 3 37 4 38 x f(x) 1. Find the formula of f(x) given in the.

Chapter 6 : Linear Quadratic Exponential Worksheets - Printable Worksheets

Comparing Linear, Quadratic, and Exponential Worksheet Identify the following as Increasing Linear, Decreasing Linear, Positive Quadratic, Negative Quadratic, Exponential Growth, or Exponential Decay.

Chapter 7 : Linear And Exponential Regression Worksheets - Printable Worksheets

Comparing Linear and Exponential Functions - Independent Practice Worksheet Is this function linear, quadratic, or exponential? x y 0 48 -1 55 -2

Chapter 8 : Constructing Linear, Quadratic, and Exponential Models of Data Worksheets

Worksheets are Algebra ii exponential regression work value 10, Secondary mathematics i an integrated approach module 4, Work 1, Regression line work, Algebra 2 honors linear and quadratic regression work, Linear regression work 1, Model fitting with linear regression exponential functions, Work 3.

Chapter 9 : Worksheets - Mr. Casalinuovo

Linear, Quadratic, and Exponential Functions Matching is an interactive and hands on way for students to practice comparing the equations, graphs, and tables of linear, quadratic, and exponential functions.