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Section 7.1 and 7.2 graphs of exponential graphs answer key

Graphic exponential functions. Graphic exponential functions using transformations. As we discussed in the previous section, the exponential functions are used for many real-world applications, such as financial, forensics, science of computation and most of life sciences. Working with a equation that describes a real-world situation gives us a method to make predictions. Most of the time, however, the equation itself is not enough. We learned a lot about things, seeing their pictorial representations, and is exactly why the graphic exponential equations are a powerful tool. This gives us another layer of insight for predicting future events. Before we begin graphics, it is useful to revise the behavior of exponential growth. Remember the table of values for a functure $f(x) = B \times f(x) = B \times$ whose base is greater than one. We will use $f(x) = 2x$. $f(x) = 2 \times$. Notice how the output values in Table 1 alter as the entry increases in 1. 1. $Xx \circ 3 \circ 2 \ 0 \ 1 \ 1 \ 2 \ 2 \ 3 \ 3 \ f(x) = 2 \times f(x) = 2 \times 1 \ 8 \ 1 \ 8 \ 1 \ 4 \ 1 \ 4 \ 1 \ 2 \ 1 \ 1 \ 2 \ 2 \ 4 \ 4 \ 8 \ 8$ Table 1 Each exit value is the previous exit and base, 2. 2. We call base 2 2 Constant. In fact, for any exponential function with form $f(x) = a \ b \ x$, $f(x) = A \ x \ b$, b is the constant proportion of the function. This means that, as the entry increases by 1, the exit value will be the product of the base and the previous exit, regardless of the value of A. Description of the table that exit values are positive for all X values; x; As X X increases, the output values increase without limit; And as X X decreases, the outlit values grow smaller, approaching zero. Figure 1 shows the exponential growth function $f(x) = 2 \times$. $f(x) = 2 \times$. Figure 1 Note that the graph approaches the X-axis, but never touches it. The F(x) domain = $2 \times f(x) = 2 \times$ is all real numbers, the interval is (0, ϕ), (0,.) and the horizontal asperta is $y = 0$. and = 0. To get a sense of the behavior of exponential decadency, we can create a table of values for a Former $f(x) = B \times f(x) = B \times$ whose base is between zero and one. We will use the $G(x) = (1 \ 2) \times$ function. $g(x) = (1 \ 2) \times$. Note as the output values of Table 2 as the change input increases by 1. 1. $XX \ -3 \ -3 \ -2 \ -2 \ -1 \ -1 \ 00 \ 11 \ 22 \ 33 \ 33 \ g(x) = (1 \ 2) \times G(X) = (1 \ 2) \times 88 \ 44 \ 22 \ 11 \ 1 \ 2 \ 1 \ 2 \ 1 \ 4 \ 1 \ 4 \ 1 \ 8 \ 1 \ 8$ Table 2 Again, because the inlet is increasing by one, each exit value is the product of the previous exit and base, or constant proportion 1 2. 1 2. Warning of the table that the outlit values are positive for all X values; X; As X X increases, the exit values grow smaller, approaching zero; and as X X decreases, the outlit values grow without limit. Figure 2 shows the exponential decay function, $g(x) = (1 \ 2) \times$. $g(x) = (1 \ 2) \times$. Figure 2 The domain of $G(x) = (1 \ 2) \times G(x) = (1 \ 2) \times$ is all real numbers, the interval is (0, $\tilde{a}$.), (0, $\tilde{a}$.), and Horizontal asymmot is $Y = 0$. $Y = 0$. An exponential function with form $f(x) = b \times$, $f(x) = b \times$, $b > 0$, $b > 0$, $b \hat{a} \epsilon \circ 1$, $B \hat{a} \epsilon \circ 1$, has these characteristics: a function of one for a horizontal asymptota: $y = 0$ $y = 0$ domain: ($\hat{A} \ \epsilon \hat{a} \ \epsilon \ \epsilon$) ($-\hat{A} \ \epsilon \ \epsilon \hat{a} \ \epsilon \ ^{\circ} \hat{A} \ \epsilon \hat{a} \ \epsilon \ 00$) Range: (0) (0) x -intercept: None Y-Intercept: (0.1) (0.1) increasing if $b > 1 \hat{a} \ \epsilon < B > 1 \hat{a} \ \epsilon 0$, the function $(x) = A$ (b) $x f(x) = A$ (b) x is stretched vertically by a factor of a one if $|A| > 1$. $|A| > 1$. It is compressed vertically by a $A \ A \ A$ factor $|A|$

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