

7-1

Additional Vocabulary Support

Exploring Exponential Models

Choose the word or phrase from the list that best completes each sentence.

exponential function
asymptote

exponential growth
growth factor

exponential decay
decay factor

1. In the function $y = 12(2.3)^x$, the value 2.3 is the growth factor.
2. An asymptote is a line that a graph approaches as x or y increases in absolute value.
3. For exponential decay, as the value of x increases, the value of y decreases.
4. A function in the general form $y = ab^x$ is called an exponential function.
5. For exponential growth, as the value of x increases, the value of y increases.
6. In the function $y = 4(0.3)^x$, the value 0.3 is the decay factor.

Identify whether each function represents exponential growth or exponential decay.

7. $y = 0.75(4)^x$ exponential growth
8. $y = 0.63(0.5)^x$ exponential decay
9. $y = 9(0.83)^x$ exponential decay
10. $y = 12(7)^x$ exponential growth

Identify the y -intercept for each function.

11. $y = 4.5(7)^x$ 4.5
12. $y = 5(3.2)^x$ 5

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Jianjun Gao



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