7-1

Practice B LESSON

Exponential Functions, Growth, and Decay

Tell whether the function shows growth or decay. Then graph.

1. $q(x) = -(2)^{x}$

2. $h(x) = -0.5(0.2)^x$







Solve.

- 5. A certain car depreciates about 15% each year.
 - a. Write a function to model the depreciation in value for a car valued at \$20,000.
 - b. Graph the function.
 - c. Suppose the car was worth \$20,000 in 2005. What is the first year that the value of this car will be worth less than half of that value?



4. $p(x) = 4(1.4)^x$



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