

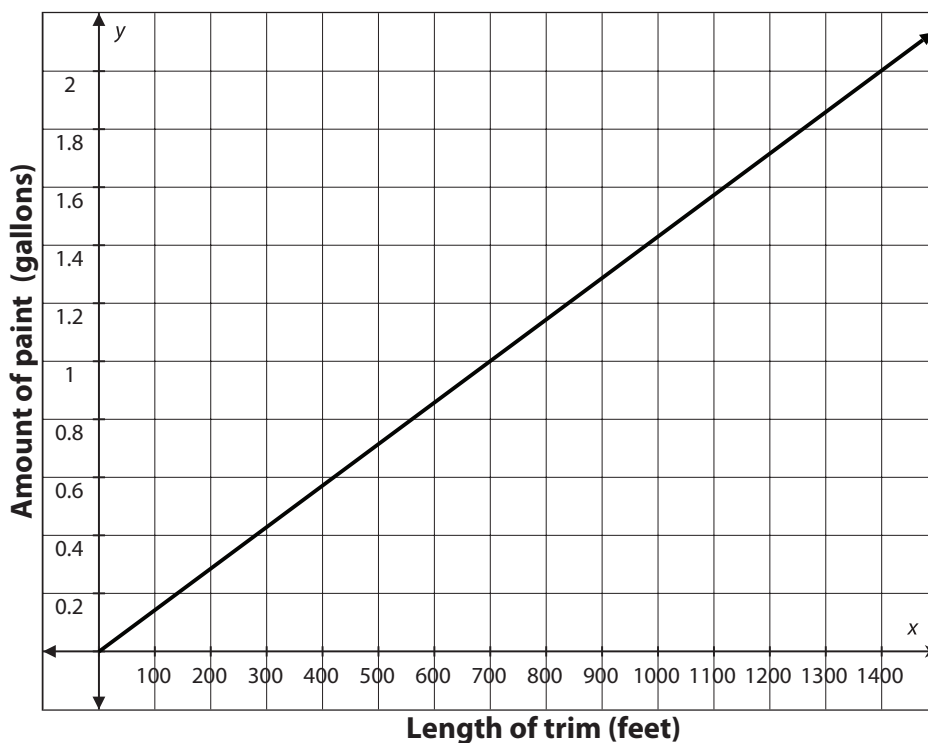
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UNIT 3 • LINEAR AND EXPONENTIAL FUNCTIONS

Lesson 3: Interpreting Graphs of Functions

Practice 3.3.3: Recognizing Average Rate of Change

The graph below shows the amount of paint needed to paint the trim molding of a house. Use the graph to answer questions 1 and 2.



1. What is the approximate rate of change for the interval [150, 500]?
2. What is the approximate rate of change for the interval [900, 1300]?

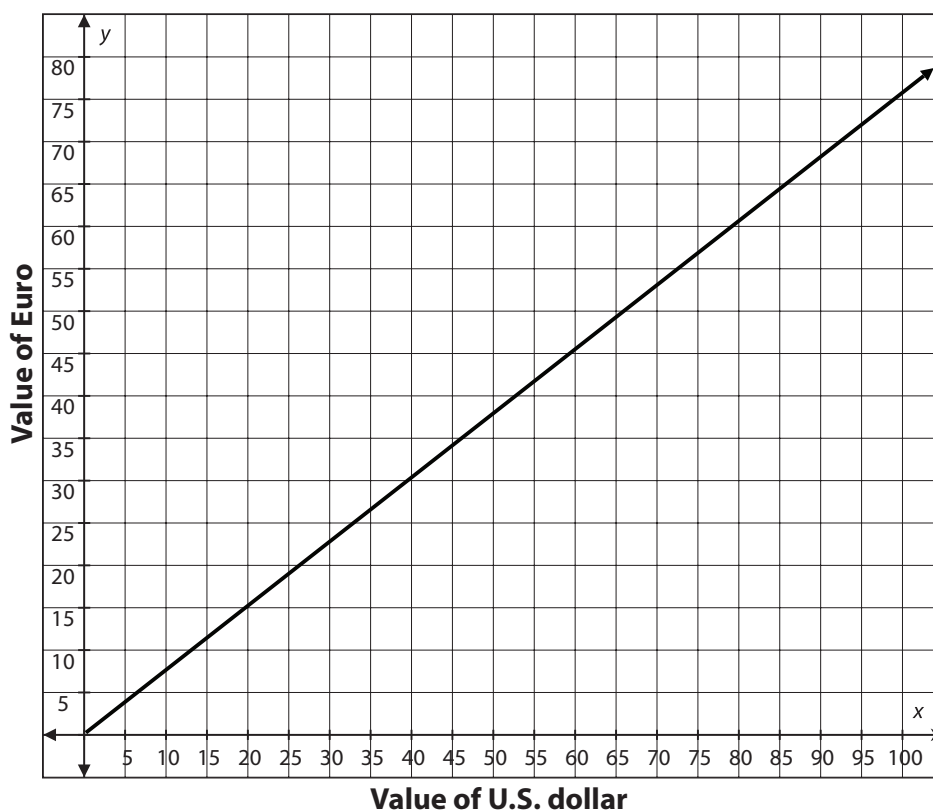
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Lesson 3: Interpreting Graphs of Functions

The graph below shows the value of the U.S. dollar compared to the value of the Euro on a specific day. Use the graph to answer questions 3–5.



3. What is the approximate rate of change for the interval $[10, 20]$?
4. What is the approximate rate of change for the interval $[40, 55]$?
5. Could you predict the rate of change for a third interval on the same graph? If so, what is your prediction?

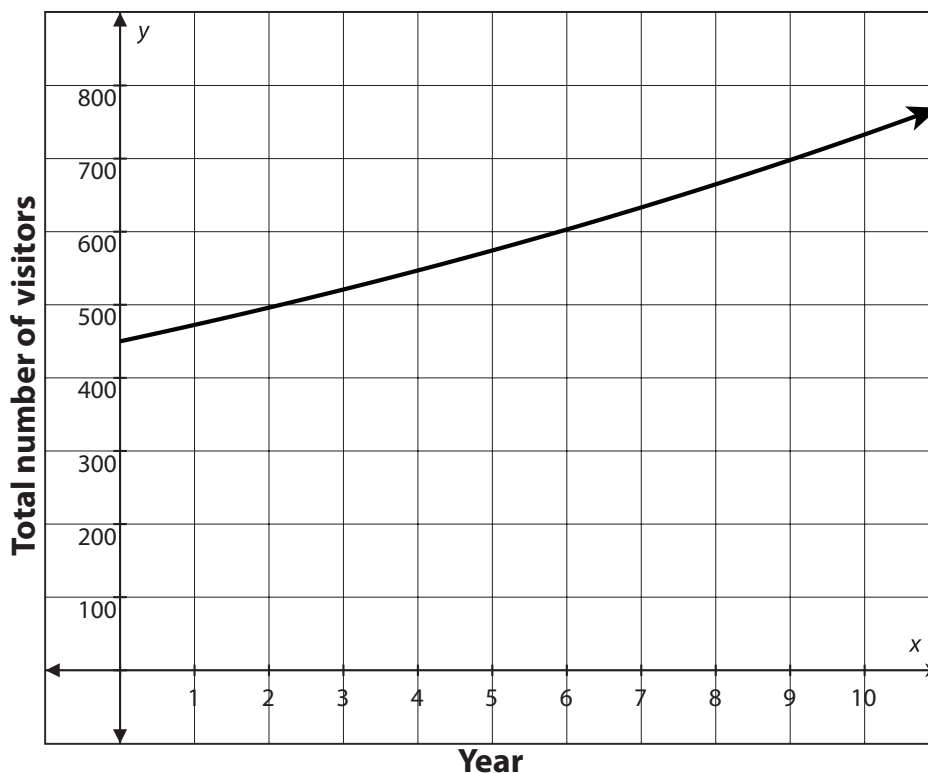
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Each year, employees at a wildlife park record the total number of visitors to the park over Labor Day weekend. The graph below shows the number of visitors for each of the last 10 years. Use the graph to answer questions 6 and 7.



6. What is the approximate rate of change for the interval $[2, 6]$?

7. What is the approximate rate of change for the interval $[2, 9]$?

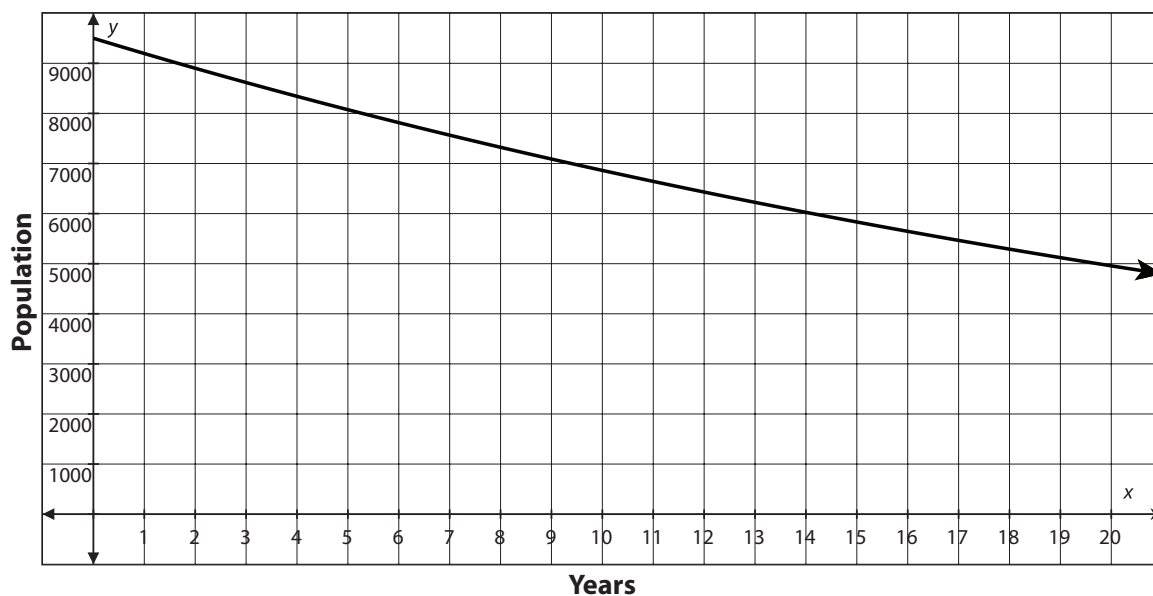
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The graph below shows the yearly population of a small town. Use the graph to answer questions 8–10.



8. What is the approximate rate of change for the interval $[2, 9]$?

9. What is the approximate rate of change for the interval $[14, 20]$?

10. How does the rate of change differ for each interval?