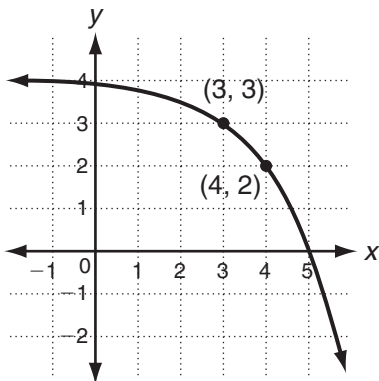


**CHAPTER 7** **Quiz**  
**Lessons 7-5 Through 7-8**

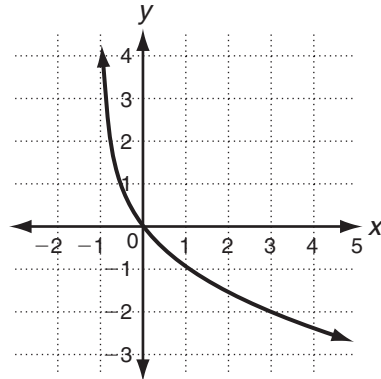
Select the best answer.

- Solve  $4^{x-4} = 0.5^{5-2x}$ .  
**A**  $x = 1$   
**B**  $x = 2$   
**C** There is no solution.
- Solve  $5^{2x} = 20$ .  
**F**  $\frac{\log 10}{\log 25}$   
**G**  $\frac{\log 20}{\log 25}$   
**H**  $\frac{2\log 20}{\log 5}$
- What is the sum of the solutions of the equation  $\log_2(x + 2) + \log_2(3 - x) = 2$ ?  
**A**  $-1$   
**B**  $1$   
**C**  $2$
- Which of the following is equal to  $2e^{2\ln 4} - \ln e^8$ ?  
**F**  $8$   
**G**  $16$   
**H**  $24$
- What could be the function shown in the graph?



- What could be the function shown in the graph?  
**A**  $a(x) = \log_2(x - 5) + 2$   
**B**  $b(x) = -2^{x-3} + 4$   
**C**  $d(x) = 2^{3-x} + 4$

- What could be the function shown in the graph?



- What could be the function shown in the graph?  
**F**  $f(x) = -\log_2(x + 1)$   
**G**  $g(x) = 2^{1-x} - 2$   
**H**  $h(x) = -\log_2(x) - 1$

- If the data below is from an exponential function, what is the value of  $a$ ?

<b>x</b>	2	3	$a$
<b>y</b>	4	6	13.5

- If the data below is from an exponential function, what is the value of  $a$ ?  
**A**  $4$   
**B**  $5$   
**C**  $6$
- What is the  $y$ -intercept of the function  $f(x) = e^x + 7$ ?  
**F**  $\ln(-7)$   
**G**  $7$   
**H**  $8$

- The data below is from an exponential function. What is the value of the constant ratio?

<b>x</b>	-2	0	2	4	6
<b>y</b>	$\frac{1}{3}$	1	3	9	27

- The data below is from an exponential function. What is the value of the constant ratio?  
**A**  $-3$   
**B**  $-2$   
**C**  $3$

## CHAPTER 7

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### Section Quiz Lessons 7-5 Through 7-8

- |      |      |
|------|------|
| 1. C | 6. F |
| 2. G | 7. B |
| 3. B | 8. H |
| 4. H | 9. C |
| 5. B |      |