Name _____ Date _____ Class _____

Quiz

Section B

Select the best answer.

1. Solve $4^{x-4} = 0.5^{5-2x}$.

  A $x = 1$

  B $x = 2$

  C $x = 3$

  D There is no solution.

2. Solve $5^{2x} = 20$.

  F $\dfrac{\log 10}{\log 25}$ **H** $\dfrac{\log 20}{\log 10}$

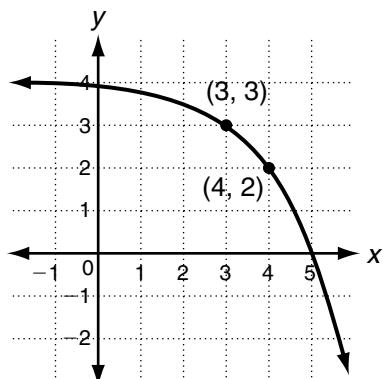 **G** $\dfrac{\log 20}{\log 25}$ **J** $\dfrac{2\log 20}{\log 5}$

3. What is the sum of the solutions of the equation $\log_2 (x + 2) + \log_2 (3 - x) = 2$?

  A -1 **C** 1

  B 0 **D** 2

4. Which of the following is equal to $2e^{2\ln 4} - \ln e^8$?

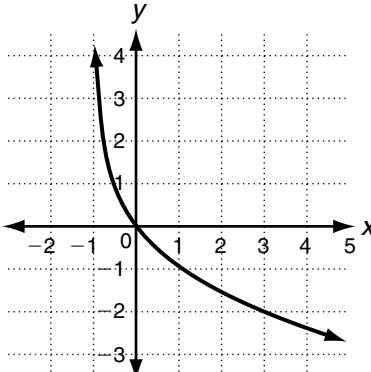 **F** 8 **H** 24

  G 16 **J** 32

5. 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 $c(x) = \log_2 (5 - x) + 2$

  D $d(x) = 2^{3-x} + 4$

6. What could be the function shown in the graph?

  F $f(x) = -\log_2 (x + 1)$

  G $g(x) = 2^{1-x} - 2$

  H $h(x) = -\log_2 (x) - 1$

  J $j(x) = 2^{2-x} - 1$

7. If the data below is from an exponential function, what is the value of a?

x	2	3	a
y	4	6	13.5

  A 4   **C** 6

  B 5   **D** 7

8. What is the y-intercept of the function $f(x) = e^x + 7$?

  F $\ln (-7)$

  G 7

  H 8

  J $e + 7$

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

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

  A -3

  B -2

  C 2

  D 3

Holt Algebra 2

22. F

23. D

24. H

25. A

26. J

27. D

28. F

29. C

30. G

31. C

32. G

33. B

34. F

35. D

36. J

37. B

38. H

39. A

40. J

41. A

42. G

43. C

44. F

CHAPTER 7

Section Quiz: Section A

1. C

2. F

3. D

4. J

5. D

6. H

7. C

8. J

9. C

10. J

11. B

12. F

13. A

14. G

Section Quiz: Section B

1. D

2. G

3. C

4. H

5. B

6. F

7. B

8. H

9. D

Chapter Test Form A

1. A

2. A

3. B

4. B

5. A

6. D

7. B

8. B

9. B

10. D

11. A

12. A

13. A

14. B

Holt Algebra 2