

7.1**Answer Key**

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|------------|-------------|------------|
| 1. 1.2553 | 2. 1.5911 | 3. 2.0792 |
| 4. 0.7634 | 5. 1.6263 | 6. -2.5229 |
| 7. 0.5975 | 8. -0.3869 | |
| 9. 1.2437 | 10. 0.8549 | |
| 11. 1.1180 | 12. 13.9666 | |
| 13. 2.5237 | 14. 5.3219 | 15. 2.2091 |
| 16. 2.2297 | 17. 2.1322 | 18. 5.6439 |
| 19. 4.6439 | 20. 2.9746 | 21. 2.1319 |

7.2**Answer Key**

- 6 weeks
- 25 weeks
- about 4.9 days

7.3**Answer Key**

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|----------------------|---------------------|---------------------|--------------------|
| 1. 6.5958 | 2. 11.3427 | 3. -0.3079 | 4. 4.6052 |
| 5. $\ln x = 15$ | 6. $3x = \ln 45$ | 7. $e^x = 20$ | 8. $x = e^8$ |
| 9. $-5x = \ln 0.2$ | 10. $4x = e^{9.6}$ | 11. $\ln 10x = 8.2$ | 12. $e^x = 0.0002$ |
| 13. 3 | 14. 42 | 15. 0.5 | 16. 16.2 |
| 17. 1.1969 | 18. $x \leq 3.2189$ | 19. 4.8332 | |
| 20. $x \geq 9.0997$ | 21. 17.0855 | | |
| 22. $x \geq -0.4890$ | 23. 2.4630 | | |
| 24. $\ln 8x = 3$ | | | |
| 25. about 4.4 years | | | |