Algebra 2 – Classwork April 25, 2014 – Review: Answer Key

1. D
2. A
3. A
4. B
5. A
6. D
7. D
8. B
9. A
10. D
11. D
12. C
13. B
14. C
15. D
16. A
17. C
18. A
19. B
20. D
21. C
22. C
23. C
24. C
25. A
26. A
27. B
28. A
29. D
30. A
31. A
32. Exponential Growth
33. Exponential Decay
34. a. $y = 330(1.11)^x$

    b. In the model, 330 represents the initial population of the deer. The growth factor is represented by 1+0.11 or 1.11.

    c. To predict the number of deer present after 5 years, substitute 5 for x in the function and evaluate:

    $$y = 330(1.11)^5 \approx 556$$

    There will be about 556 deer in the region.