

FINAL REVIEW #2 KEY

1. $y = 19 + 3x$

2. $y = 17 \cdot 4^x$

3. 2080 deer

4. $y = -2 \cdot 7^x$

5. $y = -4 \left(\frac{1}{2}\right)^x$

6. $y = 17 + 18x$

7. $y = 1 + x$

8. A

9. a) increasing
b) 7%.

10. a) $y = 2200(1 - 0.02)^t$
b) 1625 students

11. $y = 38000(1 + 0.015)^x$

12. \$960.50

13. **AC**

14. B

15. No No Yes Yes Yes

16. $D = \{-4, -3, -2, 4\}$

17. $f(2) = 1$

18. $f(-3) = 13$

19. $\frac{2x+1}{3x+1}$

20. $3x$

21. $-35x^2 - 7x$

22. $40x + 1$

23. D: $0 \leq x \leq 7$

R: $-100 \leq y \leq 350$

24. $0 < x < 1$ and $5 < x < 7$

25. $4 < x < 6$