Math I HW#37 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which function could represent a population that is growing at a rate of 15% per year, ?
2. C.
3. D.
4. Jenny deposited $400 into her bank account. The equation can be used to calculate the value of her money after years. What is the annual interest rate she is earning on her deposit?
5. 0.07% B. 1.07% C. 7% D. 107%
6. The function models the value of a car years after its purchase. Which ***best*** describes the rate of change in the value of the car?
7. Exponential growth of 87% each year
8. Exponential growth of 13% each year
9. Exponential decay of 87% each year
10. Exponential decay of 13% each year
11. The function models the value of an investment after months. Which statement is true about the value of the investment?
12. The value of the investment increases by 3% each month
13. The value of the investment decreases by 3% each month
14. The value of the investment increases by 97% each month
15. The value of the investment decreases by 97% each month
16. The function models the population of blue birds in an area years after 1980. At what rate is the population of blue birds increasing each year?
17. 4% B. 9% C. 91% D. 96%
18. The function models the value of a lady’s ring years after its purchase. What percent does the value of the ring increase by each year?
19. 0.03% B. 1.03% C. 3.00% D. 103%