



Practice

6.2 Exponential Functions

Identify each function as linear, quadratic or exponential.

1. $f(x) = (x + 1)^2 - x$

2. $g(x) = 5x - 4^2$

3. $k(x) = 2x + 11$

4. $g(x) = 2^x + 11$

5. $w(x) = x^2 + 11$

6. $h(x) = 0.4^{2x}$

7. $b(x) = x(x - 4) + (4 - x^2)$

8. $f(x) = \left(\frac{2}{3}\right)^{3x}$

9. $h(x) = 450(0.3)^{-x}$

Tell whether each function represents exponential growth or decay.

10. $f(x) = 5.9(2.6)^x$

11. $b(x) = 13(0.7)^x$

12. $k(x) = 22(0.15)^x$

13. $m(x) = 51(4.3)^x$

14. $w(x) = 0.72 \cdot 2^x$

15. $z(x) = 47(0.55)^x$

16. $h(x) = 2.5(0.8)^x$

17. $g(x) = 0.8(3.2)^x$

18. $a(x) = 150(1.1)^x$

Find the final amount for each investment.

19. \$1300 earning 5% interest compounded annually for 10 years _____

20. \$850 earning 4% interest compounded annually for 6 years _____

21. \$720 earning 6.2% interest compounded semiannually for 5 years _____

22. \$1100 earning 5.5% interest compounded semiannually for 2 years _____

23. \$300 earning 4.5% interest compounded quarterly for 3 years _____

24. \$1000 earning 6.5% interest compounded quarterly for 4 years _____

25. \$5000 earning 6.3% interest compounded daily for 1 year _____

26. \$2000 earning 5.5% interest compounded daily for 3 years _____

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