

2.1. Expanding Mathematical Abilities

Problem 1 – 10. Determine the exact value of the function defined using a calculator.

1. $f(x) = 10 \cdot 10^x$ for $x = -1$

2. $g(x) = -3 \cdot 2^x$ for $x = 3$

3. $A(x) = 10 \cdot \left(\frac{1}{2}\right)^x$ for $x = 2$

4. $f(x) = -10 \cdot 10^x$ for $x = 10^3$

Problem 2 – 10. Without a calculator, determine whether the function represents an exponential growth or exponential decay. If neither, explain why.

5. $x \mapsto 2020 \cdot 1.25 \cdot 2^x$

6. $f(x) = 0.75 \cdot \left(\frac{1}{2}\right)^x$

7. $g(x) = 10 \cdot \left(\frac{1}{2}\right)^x$

8. $f(x) = 10^{10}$

Problem 3 – 10. For each function, find the exact percentage increase or decrease that the function represents.

9. $f(x) = 0.75 \cdot 2^x$ for $x = 1$

10. $g(x) = 2020 \cdot 1.05^x$

11. $f(x) = 1000000 \cdot 0.25 \cdot 2^x$

12. $g(x) = 10 \cdot \left(\frac{1}{2}\right)^x$

Practice 8 1 Exploring Exponential Models

Christian Drosten



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