

* Evaluate the expression. Write your answer using exponents and as a simplified fraction. NO DECIMALS!

1. $5^{-5} \cdot 5^8$

2. 6^{-3}

3. $(3^2)^6$

4. $\frac{4^{50}}{4^{49}}$

* Simplify the expression.

5. $(4^0)(7x)$

6. $(3xy^2)^3 \cdot (-3x^2y)^2$

* Tell whether the function represents exponential growth or exponential decay.

7. $y = 4^x$

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

* Identify the growth or decay factor & the y-intercept of each exponential function.

9. $y = 4\left(\frac{1}{3}\right)^x$

10. $y = 3(4)^x$

* Graph the exponential function. Use a table!

11. $y = 3\left(\frac{1}{3}\right)^x$

GHZ!
COVA

25