Name_____
Due Date_____
Block_____

Exponents and Logarithms #1

1. Use a calculator to plot the graph of the function: $f(x) = -\frac{1}{2} \cdot 2^{-x}$

Evaluate:

2. $4 \cdot 2^4$

3. $4 \cdot (-2)^4$

4. $4 \cdot (-2^4)$

Simplify the expression:

5. $3(x^2 y^3)^4$

6. $(8x^2)^2$

7. $4x^5 \cdot 8x^{-3}$

8. $\left(\frac{25x^7 y^3 z^2}{5x^8 y}\right)^2 \cdot x$

9. $\frac{x^3}{y} \cdot \left(\frac{y}{x}\right)^5 \cdot \left(\frac{x^3}{y^2}\right)^{-4}$

10. $-\left(-\left(-(-3)^2\right)^{\frac{1}{2}}\right)$