

Math 3 Advanced

15.1 Defining a Log f(x) - KEY

Rewrite expressions between logarithmic and exponential forms.

1. $x = \log_5 125$

2. $x = \log_2 \left(\frac{1}{16}\right)$

3. $-x = \log_2 128$

4. $\log_{36} 216 = x + 1$

5. $\log_4 128 = 1 - 2n$

6. $\log_{\frac{1}{2}} 64 = 2x$

7. $n^2 = \frac{1}{25}$

8. $x^{-4} = 81$

9. $2^4 = r$

10. $3^3 = x$

11. $4^2 = 3x - 2$

12. $8^{-1} = 2x + 1$