

Name _____

Date _____

Year Group _____

Convert the following logarithmic functions to exponential functions

1. $\log(100) = 2$

Answer: _____ = _____

2. $\log(1) = 0$

Answer: _____ = _____

Convert the following exponential functions to logarithmic functions

3. $7^3 = 343$

Answer: $\log_{\text{___}}(\text{___}) = \text{___}$

4. $5^2 = 25$

Answer: $\log_{\text{___}}(\text{___}) = \text{___}$

Match the following logarithmic functions to their corresponding exponential functions

Don't forget to match the extra logarithmic/exponential function

5.

$\log_3 9 = 2$

$4^0 = 1$

$\log_4 1 = 0$

$8^2 = 64$

extra log

$\log_8 64 = 2$

$2^3 = 8$

extra
exponential

$\log_2 8 = 3$

$3^2 = 9$

$\log_4 4 = 1$

$2^8 = 256$