

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

$$\log_2 8 = 3$$

$$3^2 = 9$$

$$\log_4 4 = 1$$

$$2^8 = 256$$