

Classwork 7.1 Exponential and Logarithm
PCHA 2022-23 / Dr. Kessner

No calculator. Have fun!

1. Evaluate the following:

$$2^{-2}$$

$$2^{-1}$$

$$2^0$$

$$2^1$$

$$2^2$$

$$2^3$$

$$\log_2(.25)$$

$$\log_2(.5)$$

$$\log_2(1)$$

$$\log_2(2)$$

$$\log_2(4)$$

$$\log_2(8)$$

$$10^{-2}$$

$$10^{-1}$$

$$10^0$$

$$10^1$$

$$10^2$$

$$10^3$$

$$\log_{10}(.01)$$

$$\log_{10}(.1)$$

$$\log_{10}(1)$$

$$\log_{10}(10)$$

$$\log_{10}(100)$$

$$\log_{10}(1000)$$

2. Graph the following:

$y = 2^x$ and $y = \log_2 x$ on the same graph.

$y = 10^x$ and $y = \log_{10} x$ on the same graph.