

Bell Ringer

04/30/15

D24 W6

1. Identify the number that will shift the graph left or right. Will it move left or right?

$$y = \log_2 (x - 1) + 3$$

2. Identify the number that will shift the graph up or down. Will it move up or down?

$$y = \log_4 (x + 1) - 4$$

3. Graph the following logarithmic functions: **hint: find the asymptote first**

$$y = \log_4 (x + 2) + 1$$