Alg 3 Intro to log Graphs 3/8/18

- 1. Solve for x. a. $\log_3 81 = x$ b. $\log_5 \frac{1}{125} = x$ c. $\log_6 x = 2$ d. $\log_x 32 = 5$ e. $\log_1 1 = x$ f. $\log_1 16 = x$
- 2. Place consecutive integers on both side of each inequality to complete.

a. < log₈125 <

b. < log12325 <

- c. $<\log_3\left(\frac{1}{100}\right) <$
- 3. Algebraically find the inverse of $f(x) = \log_3(x+5) 2$ and sketch.



Name:

4. Sketch each graph.

a.
$$y = \log_4 x$$



b. $y = \log_3 x + 2$



c. $y = \log_2(x-3) - 4$



