Math 13800 Assignment #10

For the following equations,
a) Make an *x/y* table and draw the graph using graph paper. Use a separate set of axes for each problem.

b) Show the algebra steps to find the inverse function.

c) Graph the inverse function on the same set of axes as the original.

1) $y = 4 - 3x$

2) $y = 2x + 5$

3) $y = \frac{x-1}{4}$

4) Use only positive *x*-values for: $y = x^2 - 3$

Find:

5) $\log_2 32 =$

6) $\log_2 128 =$

7) $\log_5 125 =$

8) $\log_{10} 10000 =$

9) $\log_2 \frac{1}{4} =$

10) $\log_5 \frac{1}{5} =$

11) $\log_{10} \frac{1}{100}$

12) $\log_5 \frac{1}{625}$