Logarithmic Graphs – Worksheet

1. Graph $f(x) = 3^x$ and its inverse $f^{-1}(x)$. Name each graph.

2. Graph each of the following. State Domain, Range and equation of any asymptotes.

    a) $y = log_2(x + 1)$

    b) $y = log_5(x + 3)$

    c) $y = 2 + log_8 x$

    d) $y = 1 - log_{10}(x - 1)$

    e) $y = 4log_{\frac{1}{2}}(2x)$

    f) $y = log_{10}(-x)$

    g) $y = |log_5 x|$

    h) $y = log_5|x|$

3. Find the inverse function of $y = 2^x - 1$.