Math 140 – Pre-Calculus Name_____
Section 3.4 Video Worksheet

Logarithmic and Exponential Equations

Exponential Equations

Logarithmic Equations

Ex. $3^{2x+1} = 81$

$8^{1-x} = 4^{x+2}$

$9^{x} = \frac{1}{\sqrt[3]{3}}$

$5^{x} = 17$

$e^{5x-3} - 2 = 10476$

$e^{4x} + 5e^{2x} - 24 = 0$

$\log_5 x = 3$

$6\ln(2x) = 30$

$3\log x = \log 125$

$2\log_3(x+4) = \log_3 9 + 2$

$\log_2(x-1) - \log_2(x+3) = \log_2\left(\frac{1}{x}\right)$