

# MHF 4UI UNIT 4

## Exponential and Logarithmic Functions

Day 5

Exponential and Logarithmic Equations

Example 1: Solve the following:

a)  $12^x = 196$

b)  $4^{2x+1} = 19$

c)  $-\log_3 1 = \log_3 7 - \log_3 x$

Example 2: Solve the following equations:

a)  $\log (x + 2) = 2$

b)  $\log x = 2 \log 9$

c)  $\log_{11}(x - 4) + \log_{11}(x+6) = 1$

$$2d) 3^{2x} + 2(3^x) - 15 = 0$$

$$2e) 4^{2x} + 9(4^x) + 14 = 0$$