- Change to exponential form

11 a) $\log x = 50$; $10^{50} = x$

11 b) $\log x = 20t$; $10^{20t} = x$

11 c) $\ln x = 0.1$; $e^{0.1} = x$

11 d) $\ln w = 4 + 3x$; $e^{4+3x} = w$

11 e) $\ln (z-2) = 1/6$; $e^{1/6} = z-2$

- Solve the equation

19) $\log_5 (x-2) = \log_5 (3x+7)$

$x - 2 = 3x + 7$

$-9 = 2x$

$x = -9/2$

21) $\log x^2 = \log(-3x-2)$

$x^2 = -3x - 2$

$0 = x^2 + 3x + 2$

$x = -1 ; x = -2$

25) $\log_9 x = 3/2$

$x = 9^{3/2}$

$x = 3^3$

$x = 27$