

# Solve

1.  $6e^{2x} + 7 = 19$

$x = .347$

2.  $\log_4(3x-2) + 1 = 3$

$x = 6$

3.  $-2(3^x) - 6 = -18$

$x = 1.631$

4.  $e^{2x} + 12 = 7e^x$

$x = 1.386, 1.099$

5.  $\log_2(y^{-3}) = 12$

$x = \frac{1}{16}$  or  $.0625$

6.  $\log_4(x+3) - 1 = -\log_4(x)$

$x = 1, -4$

7.  $0 = \ln(x+2) + 4$

$x = -1.982$

8.  $\left(\frac{1}{64}\right)^{2x+1} = 16^{x-8}$

$x = 1.625$

\* Look over applications too! \*