

# Unit 7 Review

Review Day 1

# Graphing

$$h(x) = -3^{x+1} - 1$$

List the...

- Transformations
- Horizontal Asymptote
- Y-Intercept
- 2 points
- Graph

# Solve the Equation

- $8^{2x} = 4^{x-6}$

- $\left(\frac{1}{2}\right)^{x-1} = 32^{2x}$

# Expand the Logarithms

- $\log_3 2x\sqrt{3y}$

- $\ln \frac{3a^2b}{c^3}$

# Condense the Logarithms

- $\log_4 x + 2 \log_4 y - \frac{1}{3} \log_4 z$

- $\ln(4x^2 - 9) - \ln(6x - 9)$

# Solve the Equations

- $\log_{1/3} x = -4$

- $\log 16 - \log 2x = 4$

# Solve the Equations

- $2(3^{2x-5}) - 4 = 11$

- $2 \ln x = 12$