Algebra 2
Properties of Logarithms
YAY MATH!

Students will be able to complete the following problems after watching the video:

Main properties:
log xy = log x + log y

$\log \dfrac{x}{y}$ = log x – log y

log x² = **2**log x   (the exponent moves to the front and becomes the coefficient)

Given: $\log_3 5 = 1.47$ and $\log_3 20 = 2.73$

Solve:

$\log_3 4 =$ $\log_3 25 =$

$3\log_5 x - \log_5 4 = \log_5 16$ $\log_4 x + \log_4 (x - 6) = 2$