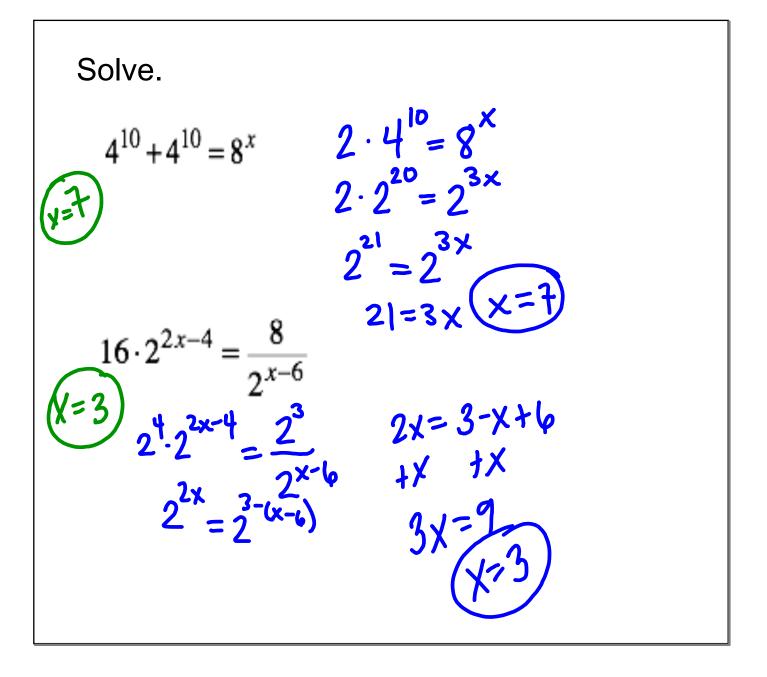
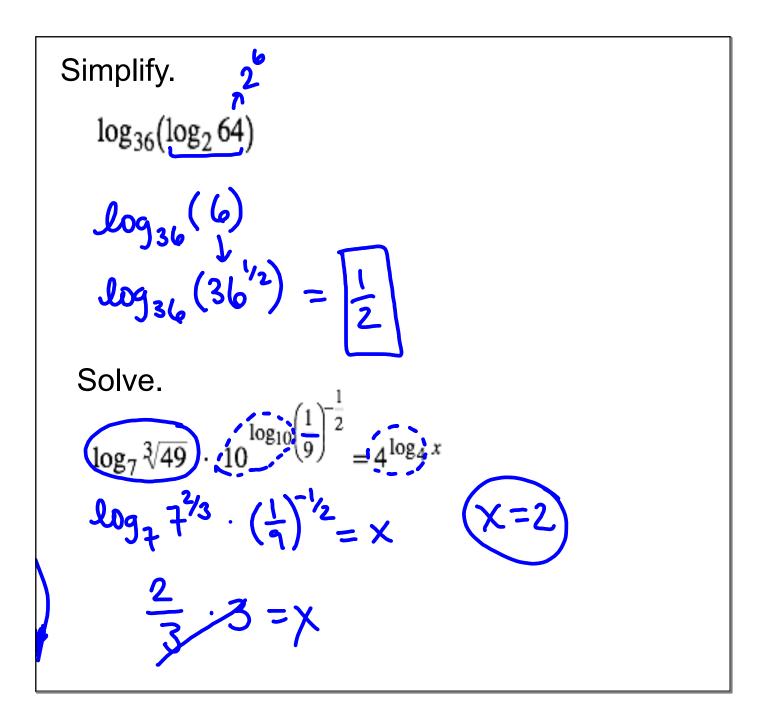


Warm Up: Use INVERSES to find the value of *x*. $\log_3 x = 2$ a) $3^{x} = 9$ log 3 b) X = 100 $3^{x} = 8$ c) x ~ 2.255 093⁸ $2.4^{x} = 7.2$ CUC d) $3 \cdot 2^x = 48$ e) $4.1 \cdot 2.6^{x} = 32.8$ f) log_2x=log_16 8 Calc x=4 X= 109 XX 2.176





If
$$f(x)=15\cdot 3^{x-6}-2$$
 find: $n = f^{-1}(133)$
 $X = 15\cdot 3^{y-6}-2$
 $12 +2$
 $\frac{x+2}{15} = \frac{15\cdot 3^{y-6}}{15}$ $f^{-1}(x) = \log_3(\frac{x+2}{15})+6$
 $\int \log_3 \frac{x+2}{15} = \log_3 3^{y-6}$ $f^{-1}(133) = \log_3 3 + 6$
 $\int \log_3 (\frac{x+2}{15}) = y-6$
 $\int \log_3 (\frac{x+2}{15}) + 6 = y$

