Solving Log Equations
$$|og_{10}|^{10^{7}} = 7 \quad |g|e^{43} = 43 \quad |f|e^{43} = 11$$

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PROPERTIES OF LOGS

$$\log_{1}m + \log_{1}h = \log_{1}(m \cdot n)$$
 $\log_{2}4 + \log_{2}8 = \log_{3}32$
 $\log_{1}m - \log_{1}h = \log_{1}(\frac{n}{n})$
 $\log_{2}2^{2} + \log_{2}2^{2} = \log_{2}2^{5}$
 $\log_{1}m^{2} = p \cdot \log_{1}m$
To Solve $\log_{1}\log_{2}$
 $\log_{2}a^{5} = \log_{2}a^{2}$
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To Solve $\log_{1}\log_{2}a^{2}$
 $\log_{2}a^{5} = \log_{1}a^{2}$
 $\log_{1}a^{5} = \log_{1}a^{5}$
 $\log_{1}a^{5} = \log_{1}a^$

$$\log_{7}(x+5) + \log_{7}(x-3) = 2\log_{7} 3$$

$$\log_{7}(x+5) + \log_{7}(x-3) = \log_{7} 3$$

$$\log_{7}(x^{2}+2x-15) = \log_{7} 9$$

$$\chi^{2}+2x-15 = 9$$

$$-9$$

$$\chi^{2}+2x-24 = 0$$

$$(x+6)(x-4) = 0$$

$$\chi+6=0 \quad x-4=0$$

$$\chi+6=0 \quad x-$$

In
$$4x + \ln 3 - \ln 6 = 3 \ln 4^3$$
 $\ln (4x \cdot 3) = \ln 4^3$
 $\ln (2x) = \ln 64$
 $2x = 64$
 $x = 3 \ln 4^3$
 $2x = 64$
 $3 \ln (2x) = \ln (2x) = 1$
 $3 \ln (2x) = \ln (2x) = 1$
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 3

$$8^{\times} = 117$$
 $| \log 8^{\times} = \log 117$
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 $| \log 8^{\times} = \log (117)$
 $| \log 8^{\times} = \log (117)$