

Unit 4 Day 5 HW(1)

1) $\log_2(x+2) + \log_2 5 = 4$

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

3) $\log_6(x+2) = 2$

4) $\log_3 x + \log_3(x-2) = 1$

Solve each equation.

1) $\log 5x = \log(2x+9)$

2) $\log(10-4x) = \log(10-3x)$

3) $\log(4p-2) = \log(-5p+5)$

4) $\log(4k-5) = \log(2k-1)$

5) $\log(-2a+9) = \log(7-4a)$

6) $2\log_7 -2r = 0$

7) $-10 + \log_3(n+3) = -10$

8) $-2\log_5 7x = 2$

$$9) \log -m + 2 = 4$$

$$10) -6\log_3 (x - 3) = -24$$

$$11) \log_{12} (v^2 + 35) = \log_{12} (-12v - 1)$$

$$12) \log_9 (-11x + 2) = \log_9 (x^2 + 30)$$

$$13) \log (16 + 2b) = \log (b^2 - 4b)$$

$$14) \ln (n^2 + 12) = \ln (-9n - 2)$$

$$15) \log x + \log 8 = 2$$

$$16) \log x - \log 2 = 1$$

$$17) \log 2 + \log x = 1$$

$$18) \log x + \log 7 = \log 37$$

$$21) \log_6 (x + 1) - \log_6 x = \log_6 29$$

$$22) \log_5 6 + \log_5 2x^2 = \log_5 48$$

$$23) \ln 2 - \ln (3x + 2) = 1$$

$$24) \ln (-3x - 1) - \ln 7 = 2$$

$$25) \ln (x - 3) - \ln (x - 5) = \ln 5$$

$$26) \ln (4x + 1) - \ln 3 = 5$$