28/2/2018

PAG, 4S1 W 374

$$log(x-1) - 2 \cdot log(x+1) - log 8 = -2$$

$$log(x-1) - log(x+1)^{2} - log 8 = \frac{2}{2}$$

$$|x-1>0| |x>1$$

$$-2 = log_{10}10^{-2}$$

$$|x-1>0| |x>1$$

$$-2 = -2 \cdot 1 = -2 \cdot log_{10}10 = log_{10}10^{-2}$$

$$log(x-1) - log(x+1)^{2} - log 8 = log(x-1)^{2}$$

$$log(x-1) - log(x+1)^{2} - log 8 = log(x-1)^{2}$$

$$log(x-1) - log 8 = log(x-1)^{2}$$

$$log(x-1) - log 8 = log(x-1)^{2}$$

$$log(x-1) - log 8 = log(x-1)^{2}$$

$$log(x+1)^{2} - log 8 = l$$

C.E.
$$\begin{cases} 2 \times +6 > 0 & \begin{cases} \times > -3 \\ \times -1 > 0 & \end{cases} = > \boxed{\times > 1} \end{cases}$$

$$l_{2}(2x+6) - \frac{l_{2}(x-1)}{l_{2}(2+6)} = 3 \cdot l_{2}^{2}$$

$$log_2(2x+6) - \frac{log_2(x-1)}{2} = log_2^3$$

$$l_{2}(2x+6)^{2} - l_{2}(x-1) = l_{2}8^{2}$$

$$\log_2 \frac{(2x+6)^2}{x-1} = \log_2 64 \longrightarrow \frac{(2x+6)^2}{x-1} = 64$$

$$(2x+6)^2 = 64(x-1)$$

$$4x + 36 + 24x - 64x + 64 = 0$$

$$4x^{2} - 40x + 100 = 0$$

$$(x-5)^2 = 0 \longrightarrow x=5$$

$$5^{\times} = 9$$
 $1095^{\times} = 1095^{\circ}$
 $1095^{\circ} = 1095^{\circ}$

$$x = log_{-9}$$

$$X = log_5^9 = \frac{log_9}{log_5} = 1,3652123$$

x = ± 53

455

$$\times (\log 5 - \log 7) = \log 3 - \log 4$$

$$X = \frac{\log 3 - \log 4}{\log 5 - \log 7}$$