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Задача 1. Решите уравнение  $\log_2 \frac{1}{x} + \log_2 \frac{1}{x+1} = -1$ .

Решение:

Из уравнения  $\log_2 \frac{1}{x} + \log_2 \frac{1}{x+1} = -1$  получаем  $\log_2 \left( \frac{1}{x} \cdot \frac{1}{x+1} \right) = -1$ .  
Так как  $\log_2 a = b \Leftrightarrow a = 2^b$ , то  $\frac{1}{x(x+1)} = 2^{-1} = \frac{1}{2}$ .  
Умножив обе части на  $x(x+1)$ , получим  $1 = \frac{1}{2}x(x+1)$ ,  
 $2 = x(x+1)$ ,  
 $x^2 + x - 2 = 0$ ,  
 $(x+2)(x-1) = 0$ ,  
 $x_1 = -2, x_2 = 1$ .  
Проверка: при  $x = -2$  логарифмы не определены.  
При  $x = 1$  получаем  $\log_2 \frac{1}{1} + \log_2 \frac{1}{1+1} = \log_2 1 + \log_2 \frac{1}{2} = 0 - 1 = -1$ .  
Ответ:  $x = 1$ .

For more information about the National Institute of Child Health and Human Development, please visit the NICHD website at [www.nichd.nih.gov](http://www.nichd.nih.gov).

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