

$$17.26 \text{ б) } \frac{7 \log_3 x - 15}{5 \log_3 x + 3} + 1 = 0$$

$$\text{ОДЗ: } x > 0$$

$$\log_3 x = t, t \in R$$

Вернемся к переменной x $3 > 0$

$$\frac{7t - 15}{5t + 3} + 1 = 0$$

$$\log_3 x = 1$$

$$x = 3^1$$

$$\frac{7t - 15 + 5t + 3}{5t + 3} = 0$$

$$x = 3$$

$$\frac{12t - 12}{5t + 3} = 0 \Leftrightarrow \begin{cases} 12t - 12 = 0 \\ 5t + 3 \neq 0 \end{cases} \quad t = 1$$

Ответ: 3