

1.14
2

$$\log_a(x+3) - \log_a(x-1) < \log_a 5$$

$$\log_a\left(\frac{x+3}{x-1}\right) < \log_a 5$$

$$\frac{x+3}{x-1} < 5$$

$$\frac{-4x+8}{x-1} < 0 \quad -\frac{+}{-}$$

$a > 1$

domain

$$x > 1$$

$$\begin{aligned} x > -3 &\leftarrow x+3 > 0 \\ x > -1 &\leftarrow x+1 > 0 \end{aligned}$$

$$\begin{cases} x > 2 \\ x < 1 \end{cases}$$

$$\begin{cases} x > 2 \\ x > 2 \end{cases}$$