



Solve $\log_4(-x+4) < \log_4(4x-5)$ for x .

Drag and drop your answer to correctly complete the sentence.

The solution is .

- A) $\left\{x \mid \frac{5}{4} < x < \frac{9}{5}\right\}$ or $\left(\frac{5}{4}, \frac{9}{5}\right)$ B) $\left\{x \mid \frac{9}{5} < x < 4\right\}$ or $\left(\frac{9}{5}, 4\right)$ C) $\left\{x \mid \frac{5}{4} < x < 4\right\}$ or $\left(\frac{5}{4}, 4\right)$
- D) no solution

Solve $\log_5(5x-8) < \log_5(2x+1)$ for x .

- A) no solution B) $\left\{x \mid \frac{8}{5} < x < 3\right\}$ or $\left(\frac{8}{5}, 3\right)$
- C) $\left\{x \mid -\frac{1}{2} < x < \frac{8}{5}\right\}$ or $\left(-\frac{1}{2}, \frac{8}{5}\right)$ D) $\left\{x \mid -\frac{1}{2} < x < 3\right\}$ or $\left(-\frac{1}{2}, 3\right)$

Solve $\log_5(3x-7) < \log_5(-2x+13)$ for x .

- A) $\left\{x \mid \frac{7}{3} < x < 4\right\}$ or $\left(\frac{7}{3}, 4\right)$ B) no solution
- C) $\left\{x \mid 4 < x < \frac{13}{2}\right\}$ or $\left(4, \frac{13}{2}\right)$ D) $\left\{x \mid \frac{7}{3} < x < \frac{13}{2}\right\}$ or $\left(\frac{7}{3}, \frac{13}{2}\right)$