FROM THE MAKERS OF WOLFRAM LANGUAGE AND MATHEMATICA

WolframAlpha

15/x + 5/x+4 = 8/3

NATURAL LANGUAGE | MATH INPUT | EXTENDED KEYBOARD | EXAMPLES | UPLOAD | RANDOM

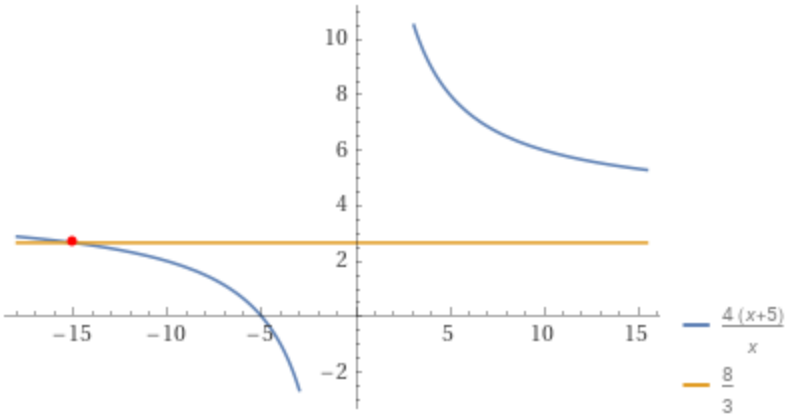
Input

$$\frac{15}{x}+\frac{5}{x}+4=\frac{8}{3}$$

Exact result

$$\frac{20}{x}+4=\frac{8}{3}$$

Plot



Alternate form assuming x is real

$$\frac{15}{x}+1=0$$

Alternate form

$$\frac{4\,(x+5)}{x}=\frac{8}{3}$$

Number line

Solution

Step-by-step solution

$x = -15$

Wolfram|Alpha Step-by-step solution

Solution:

Wolfram|Alpha Step-by-Step Solution

Wolfram|Alpha Input: 15/x + 5/x+4 = 8/3

STEP 1

Solve for x over the real numbers:

$$4 + \frac{15}{x} + \frac{5}{x} = \frac{8}{3}$$

Hint: Rewrite the left hand side of the equation.

Logarithmic form

$$\log_3\left(\frac{15}{x}+\frac{5}{x}+4\right)=\log_3(8)-\log_3(3)$$

$\log_b(x)$ is the base-b logarithm

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