WolframAlpha computational knowledge engine

solve 2/x=3/(x−2)

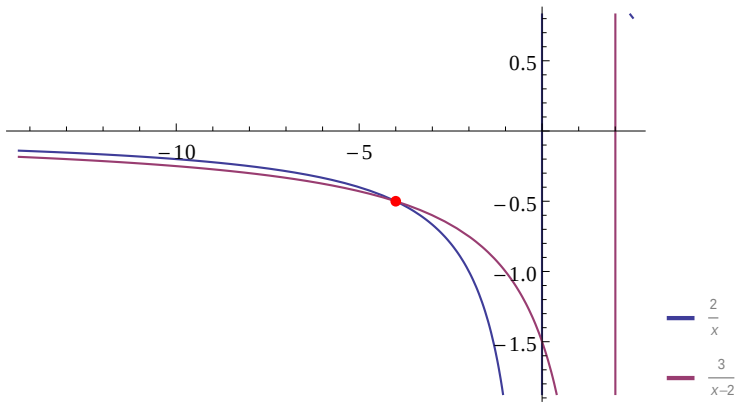
Input interpretation:

solve	$\frac{2}{x} = \frac{3}{x-2}$

Result:

$$x = -4$$

Plot:



Number line:

solve 2/x=3/(x-2)

Examples Random

Input interpretation:

solve $\frac{2}{x} = \frac{3}{x-2}$

Results: Hide steps

$x = -4$

Possible intermediate steps:

$\frac{2}{x} = \frac{3}{x-2}$

Cross multiply:

$2(x-2) = 3x$

Expand out terms of the left hand side:

$2x - 4 = 3x$

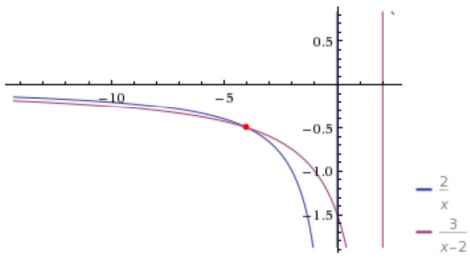
Add $(4 - 3x)$ to both sides:

$-x = 4$

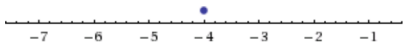
Divide both sides by -1:

$x = -4$

Plot:



Number line:



Computed by Wolfram *Mathematica*

Computation timed out. *Experimental feature:* Try again with more time »

Related Wolfram|Alpha Queries

- 2/x-3/(x-2) vs d (2/x-3/(x-2...
- series of 2/x-3/(x-2) at x =...
- third derivative 2/x-3/(x-2)

Related Links

- Solve (in *Mathematica*) »

Give us your feedback: send

WolframAlpha computational knowledge engine

solve x^ 2−2x<=x

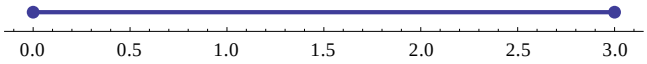
Input interpretation:

solve	$x^2 - 2x \leq x$

Result:

$0 \leq x \leq 3$

Number line:



WolframAlpha computational knowledge engine

solve |3/2 x−6|=6

Input interpretation:

solve	$\left\|\frac{3}{2}x - 6\right\| = 6$

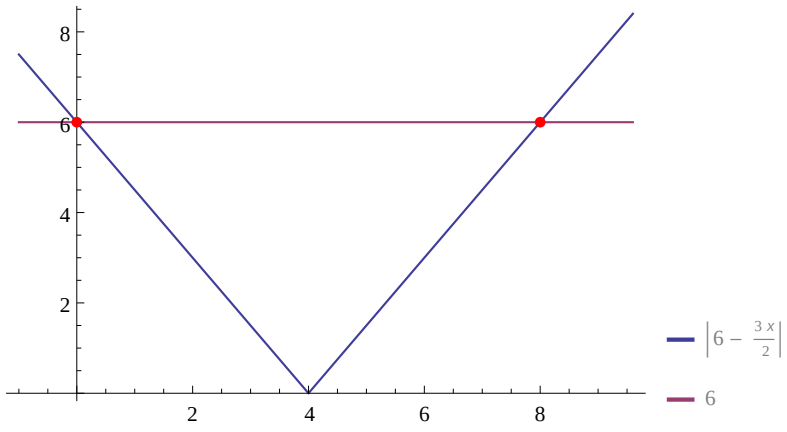
Results:

$0 \le \mathrm{Re}(x) \le 8$ and $\mathrm{Im}(x) + \sqrt{-(\mathrm{Re}(x) - 8)\,\mathrm{Re}(x)} = 0$

Solution over the reals:

$x = 0$

Plot:



Number line: