



Enter a function

Function $(2*x-1)/(x^2-x+3)^{1/2}$ Variable x at $-\infty$ Direction \downarrow

Start

$$\begin{aligned} &= -\frac{2}{\sqrt{\left(1 + \lim_{x \rightarrow -\infty} -\frac{1}{x} + \lim_{x \rightarrow -\infty} \frac{3}{x^2}\right)}} \\ &= -\frac{2}{\sqrt{\left(1 - \lim_{x \rightarrow -\infty} \frac{1}{x} + \lim_{x \rightarrow -\infty} \frac{3}{x^2}\right)}} \\ &= -\frac{2}{\sqrt{\left(1 - \lim_{x \rightarrow -\infty} \frac{1}{x} + \lim_{x \rightarrow -\infty} \frac{3}{x^2}\right)}} \\ &= -\frac{2}{\sqrt{\left(1 + \lim_{x \rightarrow -\infty} \frac{3}{x^2}\right)}} \\ &= -\frac{2}{\sqrt{\left(1 + 3 \lim_{x \rightarrow -\infty} \frac{1}{x^2}\right)}} \\ &= -\frac{2}{\sqrt{\left(1 + \frac{3}{\left(\lim_{x \rightarrow -\infty} x\right)^2}\right)}} \\ &= -2 \end{aligned}$$

☒ Show Hints

Get Hint

Constant

Identity

Constant Multiple

Sum

Difference

Product

Quotient

Power

Change

l'Hopital's Rule

Divide by zero

Factor

Rewrite

Exponential

Natural Logarithm

<trig>

<hyperbolic>

<arctrig>

<archyperbolic>

Undo

Next Step

All Steps

Close