Calculus 1 - Limit Methods

File Edit Rule Definition Apply Rule Understood Rules Help

Enter a function

Function (x-2)/(x^2-x-2) Variable x at 2 Direction right Start

$$\lim_{x \searrow 2} \frac{x-2}{x^2-x-2}$$

$$= \lim_{x \searrow 2} \frac{1}{x+1}$$

$$= \frac{1}{\lim_{x \searrow 2} (x+1)}$$

$$= \frac{1}{\lim_{x \searrow 2} x + \lim_{x \searrow 2} 1}$$

$$= \frac{1}{\lim_{x \searrow 2} x + 1}$$

$$= \frac{1}{3}$$

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