

(a): Compute the following limit if it exists, and if it does not exist but is infinite, describe the infinite limit and explain (factor the denominator):

$$\lim_{x \rightarrow -1^-} \frac{x-2}{x^2-3x-4} = \infty$$

0

↑
Should be $-\infty$,
see solutions

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This is significant,
but not enough
What is the sign of
each factor as $x \rightarrow -1^-$?

(b): Compute the following limit (if it exists), making your steps clear: $\lim_{x \rightarrow 0} \sqrt[5]{\frac{x^3-1}{3x^2+2x+1}}$

11 ↓ ?

$$\rightarrow \sqrt[5]{-1} = -1$$

Why?

How did you get this?

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I need to see some steps,
so I can tell you know what
is happening.