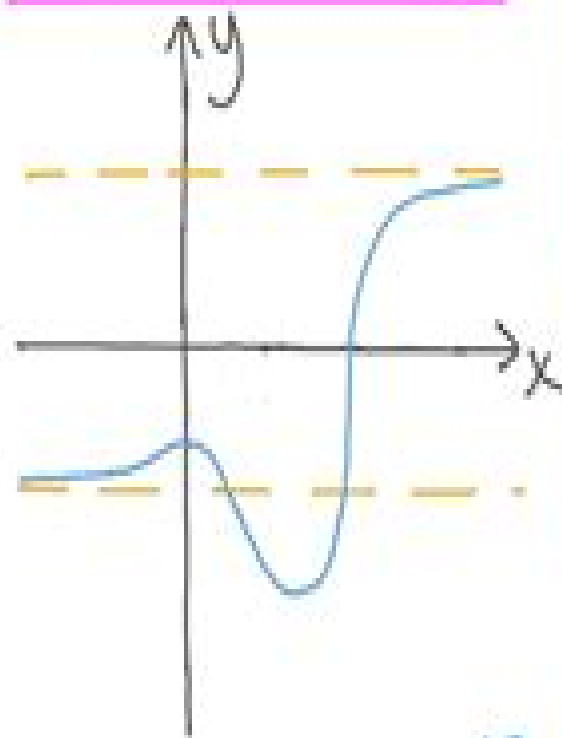


Find the vertical and horizontal asymptotes of the function

$$f(x) = \frac{3x^2 - 1}{5x^2 + 3}$$



The function has no vertical asymptote and a horizontal asymptote at $y = \frac{3}{5}$.

The line $y = L$ is a horizontal asymptote of the graph of $f(x)$ if

$$\lim_{x \rightarrow -\infty} f(x) = L \text{ or } \lim_{x \rightarrow \infty} f(x) = L$$

$$\begin{aligned} \lim_{x \rightarrow +\infty} f(x) &= \lim_{x \rightarrow +\infty} \left(\frac{3x^2 - 1}{5x^2 + 3} \div \frac{x^2}{x^2} \right) = \lim_{x \rightarrow +\infty} \left(\frac{3 - 1/x^2}{5 + 3/x^2} \right) = \frac{\lim_{x \rightarrow +\infty} 3 - \lim_{x \rightarrow +\infty} \frac{1}{x^2}}{\lim_{x \rightarrow +\infty} 5 + \lim_{x \rightarrow +\infty} \frac{3}{x^2}} \\ \lim_{x \rightarrow \infty} f(x) &= \frac{3}{5} \end{aligned}$$

Identify Horizontal And Vertical Asymptotes Practice

Kenneth Luther



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Casual Calculus: A Friendly Student Companion (In 3 Volumes) Kenneth Luther, 2022-08-16 Yes this is another Calculus book However I think it fits in a niche between the two predominant types of such texts It could be used as a textbook albeit a streamlined one it contains exposition on each topic with an introduction rationale train of thought and solved examples with accompanying suggested exercises It could be used as a solution guide because it contains full written solutions to each of the hundreds of exercises posed inside But its best position is right in between these two extremes It is best used as a companion to a traditional text or as a refresher with its conversational tone its get right to it content structure and its inclusion of complete solutions to many problems it is a friendly partner for students who are learning Calculus either in class or via self study Exercises are structured in three sets to force multiple encounters with each topic Solved examples in the text are accompanied by You Try It problems which are similar to the solved examples the students use these to see if they re ready to move forward Then at the end of the section there are Practice Problems more problems similar to the You Try It problems but given all at once Finally each section has Challenge Problems these lean to being equally or a bit more difficult than the others and they allow students to check on what they ve mastered My goal is to keep the students engaged with the text and so the writing style is very informal with attempts at humor along the way Because we have large engineering and meteorology programs at my institution and they make up the largest portion of our Calculus students naturally then these sorts of STEM students are the target audience

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