

Calculus Final Exam Study Guide

1. (No Calc) What is the value of $\lim_{x \rightarrow -1} \frac{x^2 - 3x - 4}{x^2 - 1}$?

Start by plugging in:

$$= \frac{(-1)^2 - 3(-1) - 4}{(-1)^2 - 1} = \frac{1 + 3 - 4}{1 - 1} = \frac{0}{0}$$

We have the indeterminate form, we need to use L'Hopital's Rule. Take the derivative of the top and bottom (separately), then try plugging in again.

$$= \lim_{x \rightarrow -1} \frac{2x - 3}{2x} = \frac{2(-1) - 3}{2(-1)} = \frac{-2 - 3}{-2} = \frac{-5}{-2} = \frac{5}{2}$$

2. (No Calc) What is the equation of the line tangent to $f(x) = 3x - 5 \cos 2x$ at $x = 0$?

We will use the form: $y = m(x - x_1) + y_1$. We have our x_1 , we only need m and y_1 .

To get y_1 , plug into the original equation:

$$f(0) = 3(0) - 5 \cos(2 \cdot 0) = 0 - 5 \cos 0 = -5$$

To get m , plug into the derivative (remember to use the chain rule!):

$$\begin{aligned} f'(x) &= 3 + 10 \sin 2x \\ f'(0) &= 3 + 10 \sin(2 \cdot 0) \\ &= 3 \end{aligned}$$

And now we just plug into the equation of the line:

$$y = 3(x - 0) - 5$$

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