Calculus Final Exam Study Guide

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

Start by plagging 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.

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

(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 − x₁) + y₁. We have our x₁, we only need m and y₁.

To get y1, 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!):

$$f'(x) = 3 + 10 \sin 2x$$

 $f'(0) = 3 + 10 \sin(2 \cdot 0)$
= 3

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

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

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