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How to Write Math in the Discussions Using MathJax

Coursera uses MathJax, and math is written using LaTeX syntax, enclosed in double-dollar signs. For example,

`$$a_1b_2 - a_2b_1$$`

will look to the reader like

$$a_1b_2 - a_2b_1.$$

For those of you who don't know LaTeX, I will show you how to write some math expressions that you can use to model your mathematical writing. For a more general overview of the syntax, you may refer to

<https://math.meta.stackexchange.com/questions/5020/mathjax-basic-tutorial-and-quick-reference>

Here are a selection of some sample math expressions from this course. Remember to add the double-dollar signs to the math expressions (not added here to prevent MathJax from translating).

(1)

$$\displaystyle x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

(2)

$$\displaystyle f(r - \epsilon_n) = -\epsilon_n f'(r) + \frac{1}{2}\epsilon_n^2 f''(r) + \dots$$

$$f(r - \epsilon_n) = -\epsilon_n f'(r) + \frac{1}{2}\epsilon_n^2 f''(r) + \dots$$

(3) (Note that MathJax requires the math expression to be all on one line without any returns)

$$\begin{pmatrix}$$

$$\epsilon_n \&2 \&4 \backslash 1 \&-1 \&1$$

