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How to Write Math in the Discussion Forums 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)

$$m l \frac{d^2 \theta}{dt^2} + c l \frac{d \theta}{dt} + m g \sin \theta = F_0 \cos \omega t$$

$$m l \frac{d^2 \theta}{dt^2} + c l \frac{d \theta}{dt} + m g \sin \theta = F_0 \cos \omega t$$

(2)

$$\int_1^y \frac{dy}{y^2} = - \int_0^x \sin x \, dx$$

$$\int_1^y \frac{dy}{y^2} = - \int_0^x \sin x \, dx$$

(3)

$$y(x) = \frac{1}{\mu(x)} \left(y_0 + \int_{x_0}^x \mu(x) g(x) \, dx \right)$$

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