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# How to Write Math in the Discussions Using MathJax

**On Coursera, math is written using TeX or LaTeX syntax, enclosed in double-dollar signs, that is,**

$$a\_1b\_2 - a\_2b\_1$$

will look to the reader like

$$a_1b_2 - a_2b_1.$$

For those of you who don't know TeX or 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) (*Note that MathJax requires the math expression to be all on one line without any returns*)

\text{A} = \begin{pmatrix}

a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & \cdots & a_{2n} \\ \vdots  & \vdots  & \ddots & \vdots \\ a_{m1} & a_{m2} & \cdots & a_{mn}

\end{pmatrix}

$$A = \begin{pmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & \cdots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m1} & a_{m2} & \cdots & a_{mn} \end{pmatrix}$$

(2)

\left( {\rm A}^{\rm T}\right)^{\rm T} = {\rm A}

$$\left( A^{T} \right)^{T} = A$$