Using math notation in the discussion forums

To post math notation in the discussion forums, you can use LaTeX notation. LaTeX is a document processing system used to display technical notation. The edX platform supports the use of LaTeX notation in the discussion forums. To add LaTeX notation to your posts, enclose your LaTeX code in dollar sign "$" characters. If you are entering a longer equation, you do not need to enclose each individiual character in dollar signs, just the beginning and end. Here are some examples with frequently used symbols in this course:

Symbol	LaTeX notation	Notation for forums
less than or equal to $\leq$	`\leq`	`$\leq$`
greater than or equal to $\geq$	`\geq`	`$\geq$`
approximately equal to $\approx$	`\approx`	`$\approx$`
distributed according to $\sim$	`\sim`	`$\sim$`
exponential e^x	`e^{x}`	`$e^{x}$`
logarithm $\log(x)$	`\log(x)`	`$\log(x)$`
square root $\sqrt{x}$	`\sqrt{x}`	`$\sqrt{x}$`
multiplication $a \cdot b$	`a \cdot b`	`$a \cdot b$`
fraction $\frac{1}{2}$	`\frac{1}{2}`	`$\frac{1}{2}$`
subscript x_1	`x_{1}`	`$x_{1}$`
left and right parentheses $()$	`\left( \right)`	`$\left( \right)$`
sum $\sum_{j=1}^{n} x_j$	`\sum_{j=1}^{n} x_j`	`$\sum_{j=1}^{n} x_j$`
integral $\int_0^1 f(x)dx$	`\int_{0}^{1} f(x)dx`	`$\int_{0}^{1} f(x)dx$`

derivative $f'(x)$	`f'(x)`	`$f'(x)$`
binomial coefficient $\binom{n}{k}$	`n \choose k`	`$n \choose k$`
union $\bigcup_{j=1}^{n} A_j$	`\bigcup_{j=1}^n A_j`	`$\bigcup_{j=1}^n A_j$`
intersection $\bigcap_{j=1}^{n} A_j$	`\bigcap_{j=1}^n A_j`	`$\bigcap_{j=1}^n A_j$`
pi π	`\pi`	`$\pi$`
mu μ	`\mu`	`$\mu$`
sigma σ	`\sigma`	`$\sigma$`
lowercase phi φ	`\varphi`	`$\varphi$`
capital Phi Φ	`\Phi`	`$\Phi$`
set of all real numbers $\mathbb{R}$	`\mathbb R`	`$\mathbb R$`
infinity ∞	`\infty`	`$\infty$`

Use the practice forum below if you want to practice using math notation in the discussion forum before you post your "real" question. Note this is a practice forum and will not be monitored by staff.

Unit 0 Practice Math Notation

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  Getting a fantasticly late start. Hoping to complete as much as possible of the course.
- ~~∞~~ — 2

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