The AcroTeX Online Assessment System
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The following are the rules for entering answers in the math fill-in questions for The AcroTeX Online Assessment System (TAOAS)

Rules for Entering Math

When responding to a Math Fill-in question, you answer by typing in your answer. Use the following notation to enter your answers.

- Use +, -, / for addition, subtraction and division, respectively. Thus $3 + \frac{x}{2}$ is typed as $3 + x/2$. Use parentheses to delimit the scope of your operations, type $x/(2+x)$ to mean $\frac{x}{2+x}$. Without the parentheses, the computer would interpret $x/2 + x$ as $\frac{x}{2} + x$.

- Multiplication can be denoted either by * or by juxtaposition: Type $4*x$ or $4x$ for $4x$.

- Use ^ to indicate powers: Type $4x^3$ for $4x^3$; $12x^{-6}$ for $12x^{-6}$. For more complex exponents, use parentheses to characterize the exponent, type $4^{(x+1)}$ to mean $4^{x+1}$.

- Use parentheses to delimit the argument of a function; i.e., type $\sin(x)$ rather than $\sin x$.

- Use parentheses to define the scope of an operation: For example, type $4x(x^2+1)^3$ for $4x(x^2+1)^3$; $4^{(2x+1)}$ for $4^{2x+1}$.

- To raise a function to a power, such as $\sin^2(x)$, type either $(\sin(x))^2$ or $\sin^2(x)$.

- You can also use brackets [ ] or braces { } to delimit a mathematics expression.

- Functions you may use:
  - Trig: $\sin$, $\cos$, $\tan$, $\cot$, $\sec$, $\csc$;
  - Inverse Trig: $\arcsin$, $\arccos$, $\arctan$;
  - Log: $\ln$ (natural log), or use $\log$; e.g. $\ln(x)$ or $\log(x)$, both of these refer to the natural logarithm.
  - Exponential: The natural exponential function, $e^x$, can be entered as $\exp(x)$ or as $e^x$.
  - The absolute value function, $\text{abs}(\cdot)$ can also be written in the usual way $|\cdot|$; thus, you can type either $\text{abs}(x)$ or $|x|$.
  - Misc.: $\sqrt{\cdot}$, usage $\sqrt{x}$ for $\sqrt{x}$ (or, use exponential notation: $x^{(1/2)}$).

- Spaces in answers are ignored, e.g., $4 \ x$ is the same as $4x$; use spacing, however, to improve readability.

Important: When you enter your answer, use the variables referred to (or implied by) the statement of the question. For example, if the problem statement involves the variable $x$, use $x$ in your answer, as needed; if the problem statement uses $t$, use $t$ in your answer. If you enter a function of $t$ when a function of $x$ is expected, you will either receive a error message (for Acrobat Reader 5.0 or above).