

## Serious Algebra and Calculus Errors

Below is a list of serious errors from Exam 1 (both sections). Please review the errors and correct each of them.

**Warning: Errors on this list will be severely penalized on future exams.**

- $e^{x+c} = e^x + e^c$
- $\frac{1}{x+y} = \frac{1}{x} + \frac{1}{y}$
- $(a+b)^2 = a^2 + b^2$
- $\sqrt{x+y} = \sqrt{x} + \sqrt{y}$
- Simple integrals such as

$$\int e^{3t} dt = 3e^{3t} + C$$

$$\int \frac{dx}{1-x} = \ln|1-x| + C$$