Below is yet another way to typeset equations that works well for formulas split over multiple lines. This may be useful in your HW #12. The example also shows how to control whether a given line is assigned an equation number.

\[ ze^z = z(1 + z + \frac{z^2}{2!} + \frac{z^3}{3!} + \cdots) \]

\[ = z + z^2 + \frac{z^3}{2!} + \frac{z^4}{3!} + \cdots \]

(1)

Do you see how the number for the first line of the formula was suppressed?

Do you see how the second line labeled as (1) above is referenced?

You can of course remove the example above for your work.