

Phys 516 Assignment Guidelines: Analytical Derivations

1. Clearly state the assumptions.
“Assume that ...”
“Suppose that ...”
“Consider ...”
2. Define all symbols that are used.
“Let x denote ...”
“..., where x is ...”
3. Clearly state the algebra.
“By substituting Eq. (3) in Eq. (2), we obtain ...” (Assign numbers to equations.)
4. Describe the equation in your own words (what the equation really means?).
5. Follow only legitimate inference steps (*e.g.*, in *Discrete Mathematics and Its Applications* by K. H. Rosen)
6. Often used phrases
Then; therefore; hence; consequently; it follows; this means; because; since; from the definition of.