

1) Griffiths page 232 summarizes Maxwell's equations for Electrostatics and Magnetostatics. Of the four Maxwell equations on that page:

Which one tells you that there are no magnetic monopoles? Why? (I know it's hard to type equations in this space - just use simple text, like "The first one" or " $\nabla \cdot \mathbf{B} = 0$ " or something like that)

Which one tells you that a scalar potential must exist (how/why?)

Which one tells you that a vector potential must exist (how/why?)

2) In Griffiths Example 7.3 (p 288 in my edition) he says " $\nabla \cdot \mathbf{E} = 0$ , and hence  $dV/dn = 0$ ".

Explain in your own words why the latter equation follows from the former.

3) Please submit a question you have about the reading assigned for the upcoming class. What seemed hard, was something confusing, what would you like us to spend class time on? If you can't come up with any question, how about a comment - (did anything strike you as interesting?).