

My goal, in this part of the course about divergence and curl, is that you should be comfortable calculating them, visualizing them, and deriving simple theorems about them. You are not expected to know Stokes's theorem or the divergence theorem. Nor are you expected to have a deep understanding of how divergence and curl relate to physics or topology. Those are all great topics, but we don't have time to do them justice. :)

With that in mind, your homework is the following eight problems. They are never handed in for grading, but you are expected to do them. Check your answers with a friend or with me.

Section 16.5 #1a, 9b, 11b, 14, 21, 23, 24, 40.

The following problems are not officially part of your homework. I offer them just because they're good problems to help you learn and study.

Section 16.5 #25–31

All of the exercises from the `gradCurlDiv.pdf` handout on our course web site.