

ASSIGNMENT

Read the rest of section 16.2

- p. 958 19,27,35,37

TAKE-AWAYS

After reading this section, attending this class and doing this homework you should

- understand the definition of a vector line integral and what it means (for example looking at a picture and determining if the line integral is positive or negative)
- understand how to compute a line integral using the two different notations
- realize that a vector line integral is computed as a scalar line integral but that in every other sense they are totally different things
- know the properties of the line integral and have an intuitive reason for why each of them is true (e.g., why when you reverse the orientation of the curve do you an integral that's the negative of the one you started with)
- understand why it is that these vector line integrals measure work

OTHER STUFF

Here's the link

<https://www.math.duke.edu//education/ccp/materials/mvcalc/vfield/lineintegral/index.html>
for the applet I showed in class.