

V63.0123-1 : Calculus III. Homework 3

due Wed Feb 12 at lecture

14.1:

6.

18.

32. You will probably first want to sketch the surfaces in 3d to figure out a successful (and simple) way to parametrize.

14.2:

7.

12.

16. Remember \mathbf{a} , \mathbf{b} and \mathbf{c} are general constant vectors.

36.

14.3:

3.

8.

10.

12.

16.

14.4:

22. [Hint: there is an analogous example somewhere in this chapter.] This nice result is useful in physics.