

## MTH 254H: Homework 9

Due: November 3, 2017

1. Read Sections 5.1-4 in Marsden and Tromba.
2. Do problems 4.2.1, 4.2.4, 4.2.8, 4.2.10, 4.2.16, 4.2.17, 4.2.18, 4.3.4, 4.3.9, 4.3.10, 4.3.12, 4.3.19, 4.3.21, 4.4.3, 4.4.11, 4.4.13, 4.4.15, 4.4.25, 4.4.28, and 4.4.33 in Marsden and Tromba.

Notes on homework prep:

- This is not as long as it looks; several of the exercises above are fast computations.
- You do *not* need to do 4.2.17(c). (It's quite hard.) Just use the formula presented in this part to do part (d).