Homework 6

- (1) (10 pts each) Guillemin and Pollack, Chapter 1, Section 7, Exercises 17, 18, 19; Chapter 1, Section 8, Exercises 10, 11; Chapter 2, Section 3, Exercises 5, 7, 12, 16, 18;
- (2) Show that a function $f:M\to\mathbb{R}$ is Morse if and only if f_* , viewed as a section of the cotangent bundle $T^*M\to M$, is transverse to the zero section.