Symplectic Exercises, due Monday 2/28/22   NAME:

Email Prof Jo solutions to 4 of these exercises, or let her know you are slated to give a talk

1. Exercise 1.1.13 in McDuff-Salamon

2. Show that if a manifold admits a symplectic form then it must be even dimensional.

3. Show that a symplectic form on a manifold M implies that the symplectic area of an embedded surface S with boundary in M doesn't change as S moves provided it's boundary is fixed. (trickier)

4. Show that the only sphere which admits a symplectic form is S^2.

5. Exercise 2.1.2 in McDuff-Salamon

6. Exercise 2.3.3 in McDuff-Salamon