Physics 820 homework XI, due Mon Nov 10

Reading: Chapters 5, 6.1-4

Problems:

1. Goldstein, Problem 5-9.

2. Goldstein, Problem 5-11.

3. Goldstein, Problem 5-26.

4. Goldstein, Problem 5-29.

5. A flat rectangular plate of mass M and sides a and $2a$ rotates with angular velocity ω about an axle through two diagonal corners, as shown. The bearings supporting the plate are mounted just at the corners. Find the force on each bearing due to rotation.