This is a suggested homework focusing on surface integrals. While it should help you prepare for the exam, it will not be graded.

1. Textbook page 312, Exercises 1, 2.

2. Textbook page 312, Exercise 3, 4. I will not give such problems in the exam but now is the right time to think about these applications of the line and surface integrals.

3. Textbook page 312, Exercises 5, 6, 7 (recall $\frac{\partial F}{\partial n} = \text{grad} F \cdot \vec{n}$).

4. Textbook page 319, Exercises 1, 2.

5. Textbook page 330, Exercises 1, 2, 4.