

**EE 483/583 Antennas for Wireless Communications (Spring 2026)**

**Homework 1**

**Friday, January 23, 2026**

- 1) 2.3
- 2) 2.4bc
- 3) 2.7 for  $U = B_0 \cos^4 \theta$  with same range of angles. Do not work for  $U$  given in (a) or (b).
- 4) 2.12 for  $U$  given in (e).
- 5) 2.14 for  $U$  given in 2.12(e).
- 6) 2.26
- 7) **EE 583 only**- 2.30

**Due Wednesday, January 28, 2026.**

- See course webpage for the DIRECTIVITY.m program/m-file as well as an example U.m mfile.