

**Homework 6**  
**EE 381 Electric & Magnetic Fields (Fall 2025)**  
**Wednesday, October 1, 2025**

- 1) PE3.1 modified so  $3 \leq r \leq 6$  m,  $50^\circ \leq \theta \leq 90^\circ$ , and  $40^\circ \leq \phi \leq 50^\circ$ .
- 2) PE3.2 modified so  $0 \leq \rho \leq 3$  m,  $0 \leq \phi \leq 50^\circ$ , and  $z = 0$ .
- 3) 3.7 modified so  $P(4, 2, -2)$  and  $Q(25, 5, -2)$ .
- 4) 3.13
- 5) 3.20
- 6) 3.22

**Due Wednesday, October 8, 2025**