Assignment # 3 for Electricity and Magnetism: Physics 334
Introduction to Electrodynamics (Third Edition) David 1. Griffiths

1. An infinite conducting cone of half-angle α is maintained at potential V_0 and insulated from a grounded conducting plane.
   (a) Determine the potential in the $\alpha \leq \theta \leq \pi/2$.
   (b) Determine the electric field intensity in this region.
   (c) Determine the charge density on the con's surface.
2. Griffiths : Chapter 3 # 3.1.
3. Griffiths : Chapter 3 # 3.6.
4. Griffiths : Chapter 3 # 3.7.
5. Griffiths : Chapter 3 # 3.8.