Prep guide – Rectangular waveguides
Big picture goal – Be able to solve for the modes made by a rectangular conducting waveguide – one of the most common physical waveguides in actual use.
1) Give me a qualitative description of the x, y, and z dependences of rectangular waveguide modes. Be clear about what the x, y, and z directions correspond to.
2) If you haven't already, walk through the argument that leads to the function Ψ . Put a little care into
it, and write down the major steps. Start from line 14.44 and end at 14.52 (roughly 4:00 to 6:20 in the video).