Answers to Jeremy’s Super Duper 7.012 Immunology Quiz

Nomenclature
- antigens
- antibodies
- epitope or antigenic determinant

Overview of the Immune System
- Humoral immune system involves Abs, B cells (also helper T cells and macrophages).
- Cellular or Cell-Mediated

A Few Words about Antibodies (Abs)
- B, Bone Marrow
- 4, heavy, light
- disulfide bonds
- VDJ
- VJ
- 2

Humoral Immunity
- vacuole or phagolysosome
- MHC II
- B
- MHC II, Th, Thymus, T cell receptor
- T cell receptor
- Il-2
- clone, TCR (T cell receptor)
- endocytosed, oligopeptides, vacuole or phagolysosome, MHC II
- Antigen Presenting Cells
- cytokines, clonally expand or proliferate, differentiate

Plasma Cells
- ribosomes?, endoplasmic reticulum?, machines or factories!
- Memory Cells
- directed somatic mutation
- faster and stronger (higher antibody titers)

Cellular Immunity
- MHC I, cytoplasm
- the virus, or viral peptides
- killer T or Cytotoxic T
- clone (or expansion)
- kills, perforin, membrane