

**MATH-UA.251.001: Introduction to Mathematical Modeling**  
**Homework 5**

1. Read “Saving a Drug Poisoning Victim Part 1”. Complete requirements 1 through 3.
2. Read and complete the exercises in “Immunological and Epidemiological HIV/AIDS Modeling” (there should be 5 exercises total). In section 4.1, you are given Perelson’s Immunological Model and derivation. Find the equilibria of this system of equations. This homework only contains part of this learning module - we will be addressing more of it as we learn more about differential equations modeling.