Ceng 375 - Quiz 2

For Monday section

1. **Describe the concept of ill-conditionness. Give an example.**

2. **What is the difference between Gauss-Seidel and Jacobi methods?**

For Thursday section (OPEN SOURCE quiz)

1. **Solve the following linear system by Jacobi iterations;**

$$4x - y + z = 7$$
$$-2x + y + 5z = 15$$
$$4x - 8y + z = -21$$

- Start by $P_0 = (1, 2, 2)$;
- iterate only <u>two</u> steps.