

## A Two-Phase Method Linear Programming Example

We will apply the two-phase method in order to solve the following linear program. Remember, Phase I will help determine the initial starting basic feasible solution for Phase II.

$$\begin{array}{ll} \text{minimize} & 7x_1 - 9x_2 + 4x_3 \\ \text{subject to} & \\ & x_1 + 18x_2 - 2x_3 \leq 9 \\ & x_1 + x_2 - 3x_3 = 1 \\ & x_1, x_2, x_3 \geq 0 \end{array} \quad (\text{LP})$$