The simplex algorithm execution

Simplex Algorithm

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Let's study the following dictionnary

$$(D_0): \quad \left\{ \begin{array}{ccccccc} x3 & = & + & 4 & - & x1 & + & x2 \\ \hline z & = & & & + & x1 & + & x2 \end{array} \right.$$

$x1$ enters, $x3$ leaves.
After this step, we get the new dictionnary :

$$(D_1): \quad \left\{ \begin{array}{ccccccc} x1 & = & + & 4 & + & x2 & - & x3 \\ \hline z & = & + & 4 & + & 2x2 & - & x3 \end{array} \right.$$

$x2$ enters,