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1 Brief Discussion

1.1 Column Geometry

2 Examples

Example 2.1. [1], exercise 3.23.

Example 2.2. [1], exercise 3.14.

Example 2.3. (Taken from [2], chapter 2). Show that the simplex method cannot cycle unless we have at least two basic variables that are zero.

Example 2.4. [1], exercise 3.28.

Example 2.5. [1], exercise 3.31.

References

- [1] Bertsimas, D.; Tsitsiklis, J.N. *Introduction to Linear Optimization*. Athena Scientific, 1997.
- [2] Papadimitriou, C.H.; Steiglitz, K. *Combinatorial Optimization: Algorithms and Complexity*. Prentice-Hall, 1982.