

1095-34-267

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Constructing Jordan Normal Forms. Preliminary report.

I will discuss the merits of explicitly constructing Jordan normal forms in undergraduate differential equations classes requiring linear algebra. This will be accomplished in the context of the matrix exponential. In particular, I will show my method for constructing Jordan forms, the simplicity of linear stability theory once they have been attained, and discuss the assumptions that must be made for the construction to be well defined. (Received September 10, 2013)