May Maths be with you

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Abstract

We are the resistance, we are the future. In a universe reigned by caos where the Empire rules with tyranny, we fight for the weakest. It has come to our knowledge that they have created a weapon, which has the power to destroy entire worlds and turn them into dust, named the Death Star. However we have discovered that we do have a chance to counterattack and destroy it. Our mission is to infiltrate the computer system and destroy it from within, but to do so we must solve math problems of great difficulty. This is the reason we have an ace up our sleeve: a numerical method.

Will we be able to destroy the Death Star and save the universe?

With this preposition, from the subject of numerical resolution of linear and no linear systems we will study the convergence and behavior of a family of numerical methods and discover the vast universe behind it.

References

[1] Alicia Cordero Barbero, Juan Ramón Torregrosa Sánchez, Class Notes, 2023.

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