

quiz 03

numerical methods | 2024 spring | lectures 05-06

1. when might you choose gauss elimination over other methods to solve a system of equations?

2. if secant is the derivative-less option for newtons method for a single equation, what is the derivative-less option vs newtons multivariate wrt systems of equations?

3. what is swamping?

4. what are some perks of symmetric positive-definite matrices? (1-2 items is a-ok; more is too much work.)

5. **extra credit.** what was the correction your instructor made to the lecture notes wrt successive over-relaxation (SOR)?

6. **extra credit.** what happens if you have n unknowns $n+1$ equations?

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