Linear Algebra

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Solving a linear algebra problem:

- 1) Analyze the system holistically. What type of system are you analyzing (electrical, mechanical, structural, chemical, etc.)?
- 2) Apply the relevant engineering laws/first principles to obtain a series of equations.

 $\sum F_y = 0 \to T_1 \sin 45 - W = 0$ (Eq. 2)

- 3) Put the equations in Ax = b form.
- 4) Solve by hand or in MATLAB.
- 5) Apply a series of test cases to check your results.



