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Homework #4

due Tuesday, September 24

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Exercises from Strang:

Problem Set 2.7 #22[1], 39
Problem Set 3.1 #9, 10, 12, 13, 16, 20, 22, 23, 24, 27, 28, 32
Problem Set 3.2 #1[2], 12, 31

Additional Problems:

1. Consider the three points $(1,-7)$, $(2,-16)$, $(3,-33)$. Use $PA = LU$ decomposition to find the quadratic polynomial $y = ax^2 + bx + c$ that passes through these three points.

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[1]Use Maximal Partial Pivoting please!
[2]Compute the row-reduced echelon form, not the "triangular echelon form".