homework	type: colab or handwritten	similar exercise		
ex.1.1.2	handwritten	ex.1.1.1	ex.1.1.1 PDF solution	http://math.ucdenver.edu/~langou/4650/1.1/exercise_ex_1_1_01_a2c sauer3/exercise_ex_1_1_01_a2c sauer3 sol_langou.pdf
			ex.1.1.1 colab helper	https://colab.research.google.com/drive/1VJ3_rGh9d07bndBNkzysv7xzU7U_35LN
ex.1.1.4	handwritten	ex.1.1.3	ex.1.1.3 PDF solution	http://math.ucdenver.edu/~langou/4650/1.1/exercise_ex_1_1_03_a2c sauer3/exercise_ex_1_1_03_a2c sauer3 sol_langou.pdf
			ex.1.1.3 colab helper	https://colab.research.google.com/drive/19pmIPmjKy23ryyoVU5c0K3zeZdgm96pI
ex.1.1.8	handwritten	ex.1.1.7	ex.1.1.7 PDF solution	http://math.ucdenver.edu/~langou/4650/1.1/exercise_ex_1_1_07_a2e_oer langou/exercise_ex_1_1_07_a2e_oer langou sol_langou.pdf
			ex.1.1.7 colab helper	https://colab.research.google.com/drive/1NdHyu9rQKNS44TM-G5gNn2SWsH84CP90
cp.1.1.2	colab	cp.1.1.1	cp.1.1.1 colab solution	https://colab.research.google.com/drive/10iYN2gfKaqoFF8Q4RDa3Y7569rp0Yrak
			cp.1.1.1 PDF helper	http://math.ucdenver.edu/~langou/4650/1.1/exercise_cp_1_1_01_a2c sauer3/exercise_cp_1_1_01_a2c sauer3 sol_langou.pdf
ex.1.2.8	handwritten	ex.1.2.7	ex.1.2.7 PDF solution	https://langou.github.io/4650/1.2/exercise_ex_1_2_07_a2c sauer3/exercise_ex_1_2_07_a2c sauer3 sol_langou.pdf
ex.1.2.14	handwritten	ex.1.2.15	ex.1.2.15 PDF solution	https://langou.github.io/4650/1.2/exercise_ex_1_2_15_a2c sauer3/exercise_ex_1_2_15_a2c sauer3 sol_langou.pdf
cp.1.2.4	handwritten	cp.1.2.3	cp.1.2.3 colab solution	https://colab.research.google.com/drive/1Ze9NgNqovpc89Xr3Azta-y-H_I4BArSM?usp=sharing
			cp.1.2.3 PDF solution	https://langou.github.io/4650/1.2/exercise_cp_1_2_03_a2b sauer3/exercise_cp_1_2_03_a2b sauer3 sol_langou.pdf
ex.1.3.8	handwritten	example.1.10	(see Sauer's book)	https://bookshelf.vitalsource.com/#/books/9780134697376/pageid/67
cp.1.3.2	colab	cp.1.3.1	(see Sauer's answer)	https://media.pearsoncmg.com/aw/aw_sauer_num_analysis_3/solutions/sol_1_3.html
			cp.1.3.2 pdf getting started	https://langou.github.io/4650/1.3/exercise_cp_1_3_02 sauer3/exercise_cp_1_3_02 sauer3 getting_started.pdf
ex.1.4.2	handwritten	ex.1.4.1	(see Sauer's answer)	https://media.pearsoncmg.com/aw/aw_sauer_num_analysis_3/solutions/sol_1_4.html
ex.1.4.4	handwritten	ex.1.4.3	(see Sauer's answer)	https://media.pearsoncmg.com/aw/aw_sauer_num_analysis_3/solutions/sol_1_4.html
cp.1.4.2	colab	cp.1.4.1	cp.1.4.1 colab solution	https://colab.research.google.com/drive/1Y9ASj76NH8tbOy5xOZlVTvBxeoGMZw1f
				https://langou.github.io/4650/1.4/exercise_cp_1_4_01_a2c sauer3/exercise_cp_1_4_01_a2c sauer3 sol_langou.pdf
cp.1.4.8	colab	cp.1.4.7	cp.1.4.7 colab solution	https://colab.research.google.com/drive/1-akjROUL9xvwEIYW5sZDOQOx8mhapqjJ
			cp.1.4.7 PDF solution	https://langou.github.io/4650/1.4/exercise_cp_1_4_07 sauer3/exercise_cp_1_4_07 sauer3 sol_langou.pdf
			cp.1.4.8 colab getting started	https://colab.research.google.com/drive/1ZxFwe53XlgAHIaokGlVzykP2JmXOZlD9
			cp.1.4.8 PDF getting started, plot	https://langou.github.io/4650/1.4/exercise_cp_1_4_08 sauer3/exercise_cp_1_4_08 sauer3 plot1.pdf
cp.1.5.1	colab	cp.1.5.1.a	cp.1.5.1.a colab solution	https://colab.research.google.com/drive/15UDMylJ7GXKZSDJiJdsZUxbBvDYF2ciG
cp.1.5.2	colab	cp.1.5.2.a	cp.1.5.2.a colab solution	https://colab.research.google.com/drive/1jFcHbKYRHbWr8Jc1Cl-OhaSH25dHQTZu
cp.1.5.3	colab	cp.1.5.3.a	cp.1.5.3.a colab solution	https://colab.research.google.com/drive/1ghqOaqXrL3TIs46cOTE2FZ8PTt3itUl7