MATH 22 HW 4
PLEASE SUBMIT ON GRADESCOPE AT ANY TIME BEFORE WEDNESDAY, OCTOBER 14 AT 5:59PM EDT

To earn full credit, show all work and explain your answers carefully. Make your arguments using complete sentences.

Technology should not be used for linear algebra computations. One exception: you may use technology to row-reduce matrices.

The graders will take away 1 point for every question submission on Gradescope that is not properly tagged.

(1) (a) (5 points) Lay, Section 2.3, 12.
(b) (5 points) Lay, Section 2.3, 37.

(2) (a) (5 points) Lay, Section 4.1, 33.
(b) (5 points) Lay, Section 4.2, 16.

(3) (a) (5 points) Lay, Section 4.3,14
(b) (5 points) Lay, Section 4.3, 24.
(c) (5 points) Find a basis for $M_{3\times 2}$, the vector space of 3×2 matrices, and be sure to explain why the list of vectors you give is a basis.