First, please do Section 14.6 #26, 42, but do not hand them in (because copying the images would be too tedious).

Second, do Section 14.6 #39, 51, 61, 68. As always, follow this course's convention for directional derivatives: The direction vector is not required to be a unit vector. If you want a hint on #68, then read this text backward: .)enoc a ekil tsuj(esab eht fo aera eht semit thgieh eht driht eno si dimaryp a fo emulov ehT :nees reven ev'uoy ebyam taht ,yrtemoeg fo tcaf modnar siht esu nehT .sexa etanidrooc eht stcesretni enalp taht erehw dnif nehT .ecafrus eht no $)c, b, a($ tniop yrartibra na ta enalp tnegnat eht etupmoc tsriF

Third, do Section 14.7 #5, 9, 59, 60, 61.

Finally, do the rocket nose problem from the `optimization.pdf` handout.