

Assignment 3.

- (1) Do exercise 14, 15, 28, 30, 32 of Chap 14.
- (2) Show that $\det(A) = \det(A^{tr})$ with $\det(A)$ defined by the sum over permutations. The techniques are very similar to those used in the proof of $\det(AB) = \det(A)\det(B)$. If you encounter difficulties, try a 3 by 3 case first by identifying each term as we did in class, see how you can introduce σ^{-1} in the proof. Then do the general case.