MAT631 PROBLEM SET 7

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Last Date of Submission. 25 March, 2025.

Instructions. Please read the instructions on the course website carefully before submitting your solution(s).

Questions.

- (1) (Shubham) Prove that $\omega(s_{\lambda}) = s_{\lambda'}$, for some partition λ .
- (2) (Anant) Give a detailed proof of the Cauchy identity involving power sum symmetric functions.
- (3) (Anubhav) Give a detailed proof of equation (4.10) from the textbook.
- (4) (Kanak) Give a detailed proof of equation (4.27) from the textbook.

Date: 15 March 2025.