Non-Parametric Tests – 2022 GCE Statistics Further Math A Y542

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The critical region for an r% two-tailed Wilcoxon signed-rank test, based on a large sample of size n, is $\{W_+ \le 113\} \cup \{W_+ \ge 415\}$.

- (a) Show that n = 32. [3]
- (b) Using a suitable approximation, determine the value of r. [4]