

Section 2.4 – Factoring by Grouping

Problem Set 1

Factor the following expressions.

- $6s^9 - 27s^6 - 20s^3 + 90$
- $-35x^9 + 28x^5 - 35x^4 + 28$
- $63a^9 + 36a^7 + 7a^2 + 4$
- $-67^3 + 187^2 + 47 - 12$
- $4a^8 - 24a^6 + 2a^3 - 12a$
- $32w^{10} + 48w^6 + 72w^4 + 108$
- $40a^9 - 70a^7 + 20a^2 - 35$
- $-21b^{10} + 12b^6 + 42b^4 - 24$
- $-120s^{13} - 72s^{11} - 120s^7 - 72s^5$
- $63b^9 + 77b^6 - 63b^3 - 77$
- $-3b^{10} + 12b^7 - 9b^3 + 36$
- $-49x^5 - 63x^3 - 28x^2 - 36$
- $-50b^6 - 40b^5 + 100b^4 + 80b^3$
- $42s^{12} + 42s^9 + 14s^3 + 14$
- $-21w^7 - 18w^4 - 21w^3 - 18$