

Factoring by Grouping Assignment

Factor the following polynomials by grouping.

1. $ax + an + bx + bn$

2. $y^3 + y^2 + y + 1$

3. $p^2 + 2p + 5p + 10$

4. $x^2 - 2x + 5x - 10$

5. $n^2 - 6n + 4n - 24$

6. $ax + 3x + ay + 3y$

7. $ax - 2ay + 6by - 3bx$
=

8. $y^3 - 2y^2 + 4y - 8$

9. $a^2 + 2a + 5a + 10$

10. $x^2 - 3nx + 2ax - 6an$

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11. $3ac + 3bc + ad + bd$

12. $3y^3 - 2y^2 + 6y - 4$

13. $2cx + cy - 2dx - dy$

14. $3aw - 6ak + 2bw - 4bk$

15. $4hx - 4bh + 5cx - 5bc$

16. $8b^2 + 6bc + 12bc + 9c^2$

17. $7r^2 + 3rs + 14rs + 6s^2$

18. $18x^2 + 12xy - 3xy - 2y^2$

19. $6 - 2mn + 3m - m^2n$

20. $3c^3 + 3cd^2 + 2c^2d + 2d^3$