

Chapter 10: Factoring Practice

Divide out common factors.

1. $x^3 + 2x$
2. $7x^2 + 21$
3. $2x^3 + 6x^2 - 8x$

Pattern.

4. $x^2 - 64$
5. $9y^2 - x^2$
6. $4x^2 - 81$
7. $25x^2 + 49y^2$

Easy Trinomials

8. $x^2 + 8x + 12$
9. $x^2 - 11x + 24$
10. $x^2 - 4x - 32$
11. $x^2 + 4x - 45$

Split the middle term.

12. $3x^2 - 11x + 10$
13. $8x^2 + 2x - 21$

Combinations of Rules. Use the above rules more than once to factor these expressions completely.

14. $x^3 + 4x^2 - 21x$
15. $2x^3 - 10x^2 - 28x$
16. $x^5 - 16x$
17. $3x^3 - 75x$