The Weekly Rigor

30 Problems in Factoring by Finding the Greatest Common Factor
(Part 1)

PROBLEMS

For each of the following expressions, factor out the greatest common factor.

1. $18x + 27$.

2. $16x - 24$.

3. $2ac - 4ab$.

4. $2ax + x^2$.

5. $ax + a^2 x^2$.

6. $6a^2 b + 9a^3 c$.

7. $8a^3 b^2 - 12ab^4$.

8. $2a^3 b^2 x + 3a^2 b^3 y$.

9. $14ax^2z + 56abx^2$.

10. $ac^2 - ba^2c^2 + adc^4$.

11. $ax^2y - a^2xy^3 + dx^3y$.

12. $20a^3x^3 - 45axy^2$.

13. $3x^2 + 6x$.

14. $4x^2 - 8x$.

15. $9x^4 - 18x^3 + 27x^2$.

16. $6x^4 - 18x^3 + 12x^2$.