

Factoring:

Common Factors

1. $3x - 9y$

2. $8a + 12b$

3. $6ax + 9ay$

4. $7x - 49$

5. $12xy + 15xz$

6. $27abc - 63bcd$

7. $12x + 24y - 36z$

8. $54x + 72y - 108z$

9. $5a^2 - 15ab$

10. $3x^2y - 5xy^2$

11. $4a^3 + 6a^2y^2$

12. $\frac{2}{3}x^2 - \frac{4}{3}x$

13. $\frac{4}{3}\pi r^3 - \frac{2}{3}\pi r^2$

14. $\frac{5}{6}x^2 - \frac{1}{2}ax$

15. $14at^2 + 10a^2t$

16. $6a^2x^2y^4 - 3ax^5y^2$

17. $m^2x^2 + mx^3$

18. $3x^3 - 12x^2 + 15x$

19. $6a^2x + 8axy - 14az$

20. $5x^2 - 10xy + 15x$

21. $3m^2 + 12mn + 6m$

22. $24x^2y^2 - 6y + 12xy$

23. $2x^2y^2z^2 - x^3y^3z + xy^2z^3$

24. $24ab^2x - 21ax + 9x^3$

25. $121a^3x + 66a^2x - 88ax^2$

26. $78m^2n + 52m^2n^3 - 39m^2$

27. $4(x - y) + a(x - y)$

28. $5x(2a - b) - 3(2a - b)$

29. $3(4x - 5y)^3 - a(4x - 5y)^2$

30. $\frac{2}{3}x^2y - \frac{8}{9}x^2y^2 + \frac{4}{3}x^4y^3$

31. $\frac{3}{4}x^2 + \frac{2}{3}x - \frac{5}{12}x^3$

32. $x^3 - x^5y^6 + 3x^7y^2 - 4x^4y^3$

33. $3x^3y^2z^3 - 12xyz^2 + x^2yz^2 + 4x^2y^2z^2$

34. $12(x^2 - 3x + 5)^3 + 20(x^2 - 3x + 5)^2 - 36(x^2 - 3x + 5)^4$