

Factor each expression.

1. $16x + 4y$
2. $24x^2 + 12y^2$
3. $12xy + 12x^2$
4. $5a^2b + 10ab$
5. $11x + 44x^2y$
6. $16x^2 + 8x$
7. $25a^2b^2 + 30ab^3$
8. $18xy^2 - 24x^2y$
9. $14xy - 18xy^2$
10. $27a^2b + 9b^3$
11. $36a^2b^2 - 12ab$
12. $3a^2b - 6a^2b^2$
13. $14xy^2 + 2xy$
14. $15xy^3 + y^4$
15. $x^5y - x$
16. $29xy - 3x$
17. $17a - 41a^3b$
18. $a + a^4b^3$
19. $3x^2y + 9y^2 + 6$
20. $5a^2 + 10ab - 15b^2$
21. $2a^3b^2 - 16a^2b^3 + 8ab$
22. $3x^3y + 9xy^2 + 36xy$
23. $24x^2y^2 + 12xy + x$
24. $28a^2b^2c^2 + 21a^2bc^2 - 14abc$
25. $12ax + 20bx + 32cx$
26. $a + a^2b + a^3b^3$
27. $ax^3 + 5bx^3 + 9cx^3$
28. $14a^3x + 19a^3y + 11a^3z$
29. $6x^2 - 9xy + 24x^2y^2$
30. $42abc - 12a^2b^2 + 3a^2c^2$
31. $24abx + 12ax^2 + 6x^3$
32. $x^5 + 5x^4 + 3x^2 + 2x$