

Factor each polynomial.

5. $16k^2 - 1$ 6. $121x^2 - 1$
7. $4y^2 + 20y + 25$ 8. $9s^2 - 24s + 16$
9. $16x^2 - 25$ 10. $4h^2 - 81$
11. $121s^2 - 66st + 9t^2$ 12. $16x^2 + 40xy + 25y^2$
13. $36p^2 - 49q^2$ 14. $9x^4 - 16z^2$
15. $st^2 - s$ 16. $p^3q - pq$
17. $t^3 - 27$ 18. $8p^3 + 1$
19. $16r^4s + 2rs^4$ 20. $3x^2y^4 - 81x^2y$
21. $x(y - 3) + 2(y - 3)$ 22. $u(v - 1) - 2(v - 1)$
23. $x(y - 3) + 2(3 - y)$ 24. $u(v - 1) - 2(1 - v)$
25. $pq - 2q + 2p - 4$ 26. $xy - 2y - x + 2$
27. $ab - 2 - 2b + a$ 28. $4ab + 1 - 2a - 2b$
29. $x^2 - 6x + 9 - 4y^2$ 30. $z^2 + 2z + 1 - w^2$
31. $u^2 - v^2 + 2v - 1$ 32. $x^2 - y^2 - 4y - 4$

33. $x^4 - 2x^2y + y^2$ 34. $4u^4v^2 + 4u^2v + 1$
35. $a^6 + b^3$ 36. $250x^2 - 2x^5$
37. $16s^4 - 81$ 38. $p^4 - q^4$
39. $x^6 - y^6$ 40. $64 - z^6$
41. $u^2 - v^2 - 2u - 2v$ 42. $a^2 - b^2 + a - b$
43. $(p + q)^3 - (p - q)^3$ 44. $(x + y)^3 + (x - y)^3$
45. $s^3 + t^3 + s^2t + st^2$ 46. $u^3 - v^3 - u^2v + uv^2$

Factor each polynomial.

71. $18a - 24ay + 48b - 64by$ 72. $3x^2 + 2xy + 10y + 15x$
73. $6a^2b^2 - 12ab^2 - 18b^3$ 74. $12a^2 - 18ab + 30ab^3$
75. $32ax + 12bx - 48ay - 18by$ 76. $30ac + 80bd + 40ad + 60bc$
77. $5ax^2 - 2by^2 - 5ay^2 + 2bx^2$ 78. $12c^2x + 4d^2y - 3d^2x - 16c^2y$