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Using Prime Factorization; Factoring Polynomials

Factor each integer over the set of primes.

1. 36 $2^2 \cdot 3^2$ 2. 100 $2^2 \cdot 5^2$ 3. 132 $2^2 \cdot 3 \cdot 11$
 4. 975 $3 \cdot 5^2 \cdot 13$ 5. 736 $2^5 \cdot 23$ 6. 931 $7^2 \cdot 19$

Find the GCF and LCM of the following.

7. 14, 21 $7, 42$ 8. 66, 143 $33, 130$
 9. 4a, 3a $3a, 6a^2$ 10. $-15ab, 25ab, 5a^2b, 105a^2b$
 11. $16a^2b, 72a^2b, 170c^2d^3$ 12. $60mn, -300mn, 60m^2n, 300m^2n^2$
 13. $5r^2s, 65r^2s, 65r^2s^2t$ 14. $14r^2bc, 21r^2bc, 42abc, 7abc, 92a^2b^2c^2$

Factor each polynomial.

15. $6m^2 - 10m$ $2m(3m-5)$ 16. $-10b^2 - 15b - 5b^2(2b^2+3)$
 17. $x^2 - 49$ $(x-7)(x+7)$ 18. $9x^2 + 30x + 25$ $(3x+5)^2$
 19. $4y^2 + 1$ $(2y+1)(4y^2-2y+1)$ 20. $6x^2 - 4$ $(3x-2)(3x+2)$
 21. $4x^2 - 36x + 81$ $(2x-9)^2$ 22. $17x^2 - 1$ $(3x-2)(9x^2+6x+4)$
 23. $36x^2 + 25y^2 - 60xy$ $(6x-5y)^2$ 24. $36x^2 + 12xy + 7y^2$ $3x(3x+2y)^2$
 25. $225u^2 - 100v^2w$ $25(3u-2vw)(3u+2vw)$ 26. $(25x^2 - 7y^2)(5x^2 + 9y^2)$
 27. $27m^2 - 12mn + 2n^2$ $3m(3m-2n)(3m+n)$ 28. $x^2 - 4x + 2x - 2n$ $(x-2n)(x-2n)$
 29. $2mn - 2m + 2n - 2n$ $2(m-n)(n-1)$ 30. $3ar^2 - 12ab$ $3a(ar-2b)(ar+2b)$

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Factoring Quadratic Polynomials

Factor completely. If the polynomial is prime, say so.

1. $x^2 + 5x + 6$ $(x+2)(x+3)$ 2. $x^2 - 5x + 4$ $(x-4)(x-1)$
 3. $x^2 + 4x - 5$ $(x-1)(x+5)$ 4. $x^2 - x - 6$ $(x-3)(x+2)$
 5. $1 - 4x + x^2$ $(1-x)(1+x)$ 6. $x^2 + 4x - 12$ $(x+6)(x-2)$
 7. $m^2 + 3m - 2$ prime 8. $4 - 5x - x^2$ $(1-x)(4+x)$
 9. $15 - 3d - d^2$ $(3+d)(2-d)$ 10. $x^2 - 3x + 4$ prime
 11. $2q^2 - 8q - 24$ $2(q-6)(q+2)$ 12. $40 - 5h - 3h^2$ $5(3-h)(4+h)$
 13. $4t + 24n + 3n^2$ $3(3+n)(3+n)$ 14. $2x^2 + 3x - 60$ $2(x+6)(x-5)$
 15. $p^2 - 4p - 5$ $p(p-5)(p+1)$ 16. $2x^2 + 4x - 2x$ $2x(5-x)(2+x)$
 17. $2a^2 + 5a - 3$ $(2a-1)(a+3)$ 18. $6x^2 + 5x - 2$ $(3x+2)(2x-1)$
 19. $3x^2 + 4x - 4$ $(3x-2)(3x+4)$ 20. $10x^2 - 14x + 6$ $(5x-2)(2x-3)$
 21. $3b - 15c - 36d$ $(b-5c)(5-2c)$ 22. $6x^2 + 35x - 6$ $(6x-1)(x+6)$
 23. $x^2 - 4x - 12$ $(x-4)(x+3)$ 24. $4x^2 - 3xy + y^2$ $(2x-y)(2x+y)$
 25. $12x^2 + 12x - 45$ $3(2x+5)(2x-3)$ 26. $18y^2 + 54y + 28$ $2(3y+2)(3y+7)$
 27. $6m^2 - 19m^2 + 15m$ $m(2m-3)(3m-5)$ 28. $20x^2 - 12x^2 + 12x$ $4x(5x-3)(x-1)$
 29. $26x^2 - 25x^2 + 6x$ $x^2(4x-3)(5x-2)$ 30. $12y^2 - 14y^2 - 4y$ $2y(3y+4)(2y-5)$

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Jessica J Manson



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