

$$260 \left(3x + \frac{1}{2}y\right)^2 + 3x + \frac{1}{2}y \cdot \left[\left(3x + \frac{1}{2}y\right)\left(3x + \frac{1}{2}y + 1\right)\right]$$

$$261 x(x - 2y^3)^2 - (2y^3 - x)^2 \quad [(x - 2y^3)^2(x - 1)]$$

$$262 (2b - c)^3 - 9(2b - c) \quad [(2b - c)(2b - c + 3)(2b - c - 3)]$$

$$263 12(a + b) - 6(a^2 - b^2) \quad [6(a + b)(2 - a + b)]$$

$$264 24 - 6(x - y)^2 \quad [6(2 - x + y)(2 + x - y)]$$

$$265 x^3 + 4x^2 - 9x - 36 \quad [(x + 4)(x - 3)(x + 3)]$$

$$266 x^4 - 4x^2y^2 + 4y^6 - x^2y^4 \quad [(x + 2y)(x - 2y)(x + y^2)(x - y^2)]$$

$$267 (a + 2)^2 - 1 \quad [(a + 1)(a + 3)]$$

$$268 3x^4 - 12ax^2 + 12a^2 \quad [3(x^2 - 2a)^2]$$

$$269 -49a^3 - 14a^2b - ab^2 \quad [-a(7a + b)^2]$$

$$270 -2xb^2 - 4xb - 2x \quad [-2x(b + 1)^2]$$

$$271 x^5 - 10x^4 + 25x^3 \quad [x^3(x - 5)^2]$$

$$272 a^2(x + 1) - 2a(x + 1) + x + 1 \quad [(x + 1)(a - 1)^2]$$

$$273 4a^4 + 4 - 8a^2 \quad [4(a + 1)^2(a - 1)^2]$$

$$274 2x + 2y + x^2 + 2xy + y^2 \quad [(x + y)(2 + x + y)]$$

$$275 a^3 - a^2b - ab - a \quad [a(a + 1)(a - b - 1)]$$

$$276 (2a + 3b)^2 - (4a + 6b)(a + b) \quad [b(2a + 3b)]$$

$$277 (a^2 + 2b)(2x - y) - b(b + 2)(2x - y) \quad [(2x - y)(a + b)(a - b)]$$

$$278 x^2 - y^2 - 3(x - y)^2 \quad [2(2y - x)(x - y)]$$

$$279 x^5 - x - 2x^4 + 2 \quad [(x - 2)(x^2 + 1)(x + 1)(x - 1)]$$

$$280 a - b - a^2 + 2ab - b^2 \quad [(a - b)(1 - a + b)]$$

$$281 a^6 + a^4b^2 - a^2b^4 - b^6 \quad [(a^2 + b^2)^2(a + b)(a - b)]$$

$$282 (x - 3y)(2x - y)^2 + 27y - 9x \quad [(x - 3y)(2x - y + 3)(2x - y - 3)]$$

$$283 2a^3 - 2a^3b - 18a + 18ab \quad [2a(1 - b)(a + 3)(a - 3)]$$

$$284 a^9 - 3a^6 + 3a^3 - 1 \quad [(a - 1)^3(a^2 + a + 1)^3]$$

$$285 2ax^3 - bx^3 - 2ay^3 + by^3 \quad [(2a - b)(x - y)(x^2 + xy + y^2)]$$

$$286 x^3y^3 - x^6y^3 - z^3 + x^3z^3 \quad [(1 - x)(1 + x + x^2)(xy - z)(x^2y^2 + xyz + z^2)]$$

$$287 x^4 - 4x^3 + 4x^2 + x - 2 \quad [(x - 1)(x - 2)(x^2 - x - 1)]$$

$$288 \frac{1}{8}a^7 - \frac{3}{2}a^8 + 6a^9 - 8a^{10} \quad \left[a^7\left(\frac{1}{2} - 2a\right)^3\right]$$

$$289 y^2 - (x + 2)y + 2x \quad [(y - x)(y - 2)]$$

$$290 \frac{1}{3}x^2 - \frac{2}{9}xy + \frac{1}{27}y^2 \quad \left[\frac{1}{3}\left(x - \frac{1}{3}y\right)^2\right]$$

$$291 16a^2b - \frac{1}{9}b \quad \left[b\left(4a - \frac{1}{3}\right)\left(4a + \frac{1}{3}\right)\right]$$

$$292 2ax^2(3a - x)^2 - 2a \quad [2a(3ax - x^2 + 1)(3ax - x^2 - 1)]$$

$$293 (2x + 1)^2 - 4(4x^2 - 1) \quad [(2x + 1)(5 - 6x)]$$

$$294 36x^4 + y^2 - 9x^2 - 4x^2y^2 \quad [(2x + 1)(2x - 1)(3x + y)(3x - y)]$$

$$295 x^6 + 16x^3 + 64 \quad [(x + 2)^2(x^2 - 2x + 4)^2]$$

$$296 a^4(x^2 + 1) - 2a^4 \quad [a^4(x + 1)(x - 1)]$$

$$297 x^6 - 12x^4 + 48x^2 - 64 \quad [(x + 2)^3(x - 2)^3]$$