



$$1(m^{21}) + 7(m^{18})(3n^4) + 21(m^{15})(3^2n^8) + 35(m^{12})(3^3n^{12}) + 35(m^9)(3^4n^{16}) + 21(m^6)(3^5n^{20}) + 7(m^3)(3^6n^{24}) + 1(128n^{28})$$

$$1m^{21} + 14m^{18}n^4 + 84m^{15}n^8 + 230m^{12}n^{12} + 210m^9n^{16} + 672m^6n^{20} + 448m^3n^{24} + 128n^{28}$$

$$\textcircled{1} (a^2 - b^3)^5$$

$$1(a^2)^5 + 5(a^2)^4(b^3)^1 - 10(a^2)^3(b^3)^2 + 10(a^2)^2(b^3)^3 - 5(a^2)(b^3)^4 + 1(b^3)^5$$

$$1(a^{10}) + 5(a^8)(b^3) - 10(a^6)(b^6) + 10(a^4)(b^9) - 5(a^2)(b^{12}) + 1(b^{15})$$

$$a^{10} + 5a^8b^3 - 10a^6b^6 + 10a^4b^9 - 5a^2b^{12} + b^{15}$$

$$\textcircled{3} (3x - 2y)^4$$

$$1(3x)^4 + 4(3x)^3(2y)^1 - 6(3x)^2(2y)^2 + 4(3x)(2y)^3 - 1(2y)^4$$

$$3x^4 + 24x^3y - 36x^2y^2 + 24xy^3 - 2y^4$$

$$3x^4 + 24x^3y - 36x^2y^2 + 24xy^3 - 2y^4$$

$$\begin{aligned} & \textcircled{4} (5m - 2n)^5 \\ & 1 (5m)^5 + 5 (5m)^4 (2n)^1 - 10 (5m)^3 (2n)^2 + \\ & 10 (5m)^2 (2n)^3 - 5 (5m) (2n)^4 + 1 (2n)^5 \\ & \left[ 5m^5 + 50m^4n - 100m^3n^2 + 100m^2n^3 - \right. \\ & \left. 50mn^4 + 2n^5 \right] \end{aligned}$$

$$\begin{aligned} & \textcircled{5} (2x^3 - 3y^4)^6 \\ & 1 (2x^3)^6 + 6 (2x^3)^5 (3y^4)^1 - 15 (2x^3)^4 (3y^4)^2 + \\ & 20 (2x^3)^3 (3y^4)^3 - 15 (2x^3)^2 (3y^4)^4 + 6 (2x^3) \\ & (3y^4)^5 - 1 (3y^4)^6 \\ & \left[ 2x^{18} + 36x^{15}y^4 - 90x^{12}y^8 + 120x^9y^{12} - \right. \\ & \left. 90x^6y^{16} + 36x^3y^{20} - 3y^{24} \right] \end{aligned}$$