	解説 NO 2	多項式の計算NO2 乗法公式１－①	NAME	5

Cコース

⑦ $(2a+\frac{2}{3})(2a-\frac{1}{3})$

$=4a^2+(\frac{2}{3}-\frac{1}{2})\times 2a+\frac{2}{3}\times-\frac{1}{3}$

$=4a^2+\frac{1}{3}\times 2a-\frac{2}{9}$

$=4a^2+\frac{2}{3}a-\frac{2}{9}$

⑧ $(\frac{1}{2}x-4)(\frac{1}{2}x+8)$

$=\frac{1}{4}x^2+(-4+8)\times\frac{1}{2}x-4\times 8$

$=\frac{1}{4}x^2+4\times\frac{1}{2}x-32$

$=\frac{1}{4}x^2+2x-32$

⑨ $(ab+3)(ab+2)$

$=a^2b^2+(3+2)ab+3\times 2$

$=a^2b^2+5ab+6$

⑩ $(ab-5)(ab-1)$

$=a^2b^2+(-5-1)ab-5\times-1$

$=a^2b^2-6ab+5$

⑪ $(xy+6)(xy-2)$

$=x^2y^2+(6-2)xy+6\times-2$

$=x^2y^2+4xy-12$

⑫ $(xy-10z)(xy-4z)$

$=x^2y^2+(-10z-4z)xy-10z\times-4z$

$=x^2y^2-14xyz+40z^2$

Dコース

⑦ $(3x+\frac{2}{5})(3x+\frac{5}{2})$

$=9x^2+(\frac{2}{5}+\frac{5}{2})\times 3x+\frac{2}{5}\times\frac{5}{2}$

$=9x^2+(\frac{4}{10}+\frac{25}{10})\times 3x+1$

$=9x^2+\frac{29}{10}\times 3x+1$

$=9x^2+\frac{87}{10}x+1$

⑧ $(\frac{1}{5}a-7b)(\frac{1}{5}a-3b)$

$=\frac{1}{25}a^2+(-7b-3b)\times\frac{1}{5}a-7b\times-3b$

$=\frac{1}{25}a^2-10b\times\frac{1}{5}a+21b^2$

$=\frac{1}{25}a^2-2ab+21b^2$

⑨ $(ab+2)(ab+7)$

$=a^2b^2+(2+7)ab+2\times 7$

$=a^2b^2+9ab+14$

⑩ $(ab+6)(ab-8)$

$=a^2b^2+(6-8)ab+6\times-8$

$=a^2b^2-2ab-48$

⑪ $(6a-b)(6a+5b)$

$=36a^2+(-b+5b)\times 6a-b\times 5b$

$=36a^2+24ab-5b^2$

⑫ $(xy-10z)(xy-3z)$

$=x^2y^2+(-10z-3z)xy-10z\times-3z$

$=x^2y^2-13xyz+30z^2$