

開始日 /	終了日 /	解説 NO 4	多項式の計算 NO 4		NAME	9
			中 3	乗法公式 4 - ②		

A コース

B コース

C コース

D コース

$$\textcircled{7} (x+12)(x-12)$$

$$= x^2 - 12^2$$

$$= x^2 - 144$$

$$\textcircled{7} (3x-4m)(3x+4m)$$

$$= (3x)^2 - (4m)^2$$

$$= 9x^2 - 16m^2$$

$$\textcircled{7} (2x-3)(-2x-3)$$

$$= (2x)^2 - 3^2$$

$$= 4x^2 - 9$$

$$\textcircled{7} (a+mn)(a-mn)$$

$$= a^2 - (mn)^2$$

$$= a^2 - m^2n^2$$

$$\textcircled{8} (7x+4y)(7x-4y)$$

$$= (7x)^2 - (4y)^2$$

$$= 49x^2 - 14y^2$$

$$\textcircled{8} (ab+8c)(ab-8c)$$

$$= (ab)^2 - (8c)^2$$

$$= a^2b^2 - 64c^2$$

$$\textcircled{8} \left(\frac{1}{2}x-a\right)\left(\frac{1}{2}x+a\right)$$

$$= \left(\frac{1}{2}x\right)^2 - a^2$$

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

$$\textcircled{8} \left(\frac{3}{5}x-2b\right)\left(\frac{3}{5}x+2b\right)$$

$$= \left(\frac{3}{5}x\right)^2 - (2b)^2$$

$$= \frac{9}{25}x^2 - 4b^2$$

$$\textcircled{9} \left(a+\frac{1}{3}b\right)\left(a-\frac{1}{3}b\right)$$

$$= a^2 - \left(\frac{1}{3}b\right)^2$$

$$= a^2 - \frac{1}{9}b^2$$

$$\textcircled{9} \left(\frac{a}{6}-7\right)\left(\frac{a}{6}+7\right)$$

$$= \left(\frac{a}{6}\right)^2 - 7^2$$

$$= \frac{a^2}{36} - 49$$

$$\textcircled{9} \left(\frac{x}{3}-5\right)\left(\frac{x}{3}+5\right)$$

$$= \left(\frac{x}{3}\right)^2 - 5^2$$

$$= \frac{x^2}{9} - 25$$

$$\textcircled{9} \left(\frac{x}{9}-\frac{4}{3}\right)\left(\frac{x}{9}+\frac{4}{3}\right)$$

$$= \left(\frac{x}{9}\right)^2 - \left(\frac{4}{3}\right)^2$$

$$= \frac{x^2}{81} - \frac{16}{9}$$

$$\textcircled{10} \left(x+\frac{3}{4}y\right)\left(x-\frac{3}{4}y\right)$$

$$= x^2 - \left(\frac{3}{4}y\right)^2$$

$$= x^2 - \frac{9}{16}y^2$$

$$\textcircled{10} \left(\frac{a}{2}-\frac{b}{8}\right)\left(\frac{a}{2}+\frac{b}{8}\right)$$

$$= \left(\frac{a}{2}\right)^2 - \left(\frac{b}{8}\right)^2$$

$$= \frac{a^2}{4} - \frac{b^2}{64}$$

$$\textcircled{10} \left(\frac{n}{7}-\frac{2}{3}\right)\left(\frac{n}{7}+\frac{2}{3}\right)$$

$$= \left(\frac{n}{7}\right)^2 - \left(\frac{2}{3}\right)^2$$

$$= \frac{n^2}{49} - \frac{4}{9}$$

$$\textcircled{10} \left(\frac{7}{6}n+3m\right)\left(\frac{7}{6}n-3m\right)$$

$$= \left(\frac{7}{6}n\right)^2 - (3m)^2$$

$$= \frac{49}{36}n^2 - 9m^2$$

$$\textcircled{11} (x+0.2)(x-0.2)$$

$$= x^2 - 0.2^2$$

$$= x^2 - 0.04$$

$$\textcircled{11} (1.5x-6a)(1.5x+6a)$$

$$= (1.5x)^2 - (6a)^2$$

$$= 2.25x^2 - 36a^2$$

$$\textcircled{11} (ab+0.1)(ab-0.1)$$

$$= (ab)^2 - 0.1^2$$

$$= a^2b^2 - 0.01$$

$$\textcircled{11} (3a-0.4)(3a+0.4)$$

$$= (3a)^2 - 0.4^2$$

$$= 9a^2 - 0.16$$

$$\textcircled{12} (2a-0.5)(2a+0.5)$$

$$= (2a)^2 - 0.5^2$$

$$= 4a^2 - 0.25$$

$$\textcircled{12} (x-0.8)(0.8+x)$$

$$= x^2 - 0.8^2$$

$$= x^2 - 0.64$$

$$\textcircled{12} (3c-0.3)(3c-0.3)$$

$$= (3c)^2 - 0.3^2$$

$$= 9c^2 - 0.09$$

$$\textcircled{12} (xy-10z)(xy+10z)$$

$$= (xy)^2 - (10z)^2$$

$$= x^2y^2 - 100z^2$$