

乗法公式1が
使える式

全く同じ

$$(\bullet + \triangle)(\bullet + \square) = \overset{\textcircled{1}}{\bullet^2} + (\triangle + \square)\overset{\textcircled{2}}{\bullet} + \triangle\square$$

問題
NO4、5

例題1

$$\begin{aligned} (x + 2)(x + 7) &= x^2 + (2+7)x + 2 \times 7 \\ &= x^2 + 9x + 14 \end{aligned}$$

NO4、5

例題2

$$\begin{aligned} (a - 5)(a - 8) &= a^2 + (-5-8)a + (-5) \times (-8) \\ &= a^2 - 13a + 40 \end{aligned}$$

例題3

$$\begin{aligned} &= (3y - 4y)x \\ &= (-y)x \\ &= -xy \end{aligned}$$

NO4、5

例題3

$$\begin{aligned} (x + 3y)(x - 4y) &= x^2 + (3y-4y)x + 3y \times (-4y) \\ &= x^2 - xy - 12y^2 \end{aligned}$$

例題5

$$\begin{aligned} &= (3b - 6b) \times (-4a) \\ &= (-3b) \times (-4a) \\ &= +12ab \end{aligned}$$

NO4、5

例題4

$$\begin{aligned} (3x + 6)(3x - 9) &= (3x)^2 + (6-9) \times 3x + 6 \times (-9) \\ &= 9x^2 - 9x - 54 \end{aligned}$$

○ $(3x)^2 = 3x \times 3x = 9x^2$

× $(3x)^2 = 3x \times 2x = 6x^2$

NO4、5

例題5

$$\begin{aligned} (-4a + 3b)(-4a - 6b) &= (-4a)^2 + (3b-6b) \times (-4a) + 3b \times (-6b) \\ &= 16a^2 + 12ab - 18b^2 \end{aligned}$$

NO4、5

例題6

$$\begin{aligned} \left(\frac{1}{2}x + 3\right)\left(\frac{1}{2}x - 5\right) &= \left(\frac{1}{2}x\right)^2 + (3-5) \times \frac{1}{2}x + 3 \times (-5) \\ &= \frac{1}{4}x^2 - x - 15 \end{aligned}$$

例題6

$$\begin{aligned} &= (3-5) \times \frac{1}{2}x \\ &= (-2) \times \frac{1}{2}x \\ &= -x \end{aligned}$$

NO4、5

例題7

$$\begin{aligned} (xy + 7)(xy - 1) &= (xy)^2 + (7-1) \times xy + 7 \times (-1) \\ &= x^2y^2 + 6xy - 7 \end{aligned}$$

こっこの2乗を
忘れない

例題7

$$(xy)^2 = xy \times xy = x^2y^2$$

こっこの2乗を忘れない

$$x^2y^2$$