

# 数学 I 計算力チェック

\_\_\_\_\_年\_\_\_\_\_組\_\_\_\_\_番 名前\_\_\_\_\_

1. 共通因数に着目して因数分解せよ。

(1)  $2x^2y - 6xy$

(5)  $(x + 2y)(2x + y) + 4x + 2y$

(2)  $(a + 2b)^2 + a + 2b$

(6)  $a^2 + ab + a + b$

(3)  $xy(2x + y) - 2x - y$

(7)  $xy - xz - 2y + 2z$

(4)  $ab(a - b) + a - b$

解答

$$(1) 2xy(x - 3)$$

$$\begin{aligned}(2) (a + 2b)(a + 2b) + (a + 2b) \\ = (a + 2b)(a + 2b + 1)\end{aligned}$$

$$\begin{aligned}(3) xy(2x + y) - (2x + y) \\ = (2x + y)(xy - 1)\end{aligned}$$

$$\begin{aligned}(4) ab(a - b) + (a - b) \\ = (a - b)(ab + 1)\end{aligned}$$

$$\begin{aligned}(5) (x + 2y)(2x + y) + 2(2x + y) \\ = (2x + y)(x + 2y + 2)\end{aligned}$$

$$\begin{aligned}(6) a(a + b) + (a + b) \\ = (a + b)(a + 1)\end{aligned}$$

$$\begin{aligned}(7) x(y - z) - 2(y - z) \\ = (y - z)(x - 2)\end{aligned}$$