

年 組 番 名前

/6

次の式を因数分解しなさい。

[1]
$$4x^2 - 8x + 4$$
 4が共通因数です!
= $4(x^2 - 2x + 1)$
= $4(x - 1)^2$

[4]
$$50x^{2} - 40xy + 8y^{2}$$

= $2(25x^{2} - 20xy + 4y^{2})$
= $2\{(5x)^{2} - 2 \times 5x \times 2y + (2y)^{2}\}$
 $5x = A, 2y = B \ \delta \ \delta \ \left\ \left\ = $2(A^{2} - 2AB + B^{2})$
= $2(A - B)^{2}$
= $2(5x - 2y)^{2}$$

[5]
$$24a^2 - 54b^2$$

= $6 \{4a^2 - 9b^2\}$
= $6 \{(2a)^2 - (3b)^2\}$
= $6(2a + 3b)(2a - 3b)$

[6]
$$27xy^{2} + 18xy + 3x$$

= $3x(9y^{2} + 6y + 1)$
= $3x \{(3y)^{2} + 2 \times 3y + 1\}$
 $3y = A \succeq x \Leftrightarrow ($
= $3x(A^{2} + 2A + 1)$
= $3x(A + 1)^{2}$
= $3x(3y + 1)^{2}$