

P 3 6 1章の基本のたしかめ (宿題として15程度)

1.

$$(1) (3x - 2y) \times 5xy = 15x^2y - 10xy^2$$

$$(2) 3a(4a - 5b) = 12a^2 - 15ab$$

$$(3) (4x^2 + 8x) \div 2x = 2x + 4$$

$$(4) (10a^2 - 15ab) \div 5a = 2a - 3b$$

2.

$$(1) (x - 1)(y - 1) = xy - x - y + 1$$

$$(2) (x + 3y)(x - 8y) = x^2 - 5xy - 24y^2$$

3.

$$(1) (x + 1)(x + 4) = x^2 + 5x + 4 \quad (2) (x - 5)(x + 7) = x^2 + 2x - 35$$

$$(3) (x + 6)^2 = x^2 + 12x + 36 \quad (4) (x + 4)(x - 4) = x^2 - 16$$

4.

$$2 \ ) \ 490$$

$$5 \ ) \ 245$$

$$7 \ ) \ 49$$

$$7$$

$$490 = 2 \times 5 \times 7^2$$

$$(1) 2x^2 - x = x(2x - 1) \quad (2) x^2 - 36 = (x + 6)(x - 6)$$

$$(3) x^2 + 16x + 64 = (x + 8)^2 \quad (4) x^2 + 7x + 12 = (x + 3)(x + 4)$$

$$(5) x^2 - 6x + 8 = (x - 4)(x - 2) \quad (6) x^2 - x - 2 = (x - 2)(x + 1)$$

5.

6.

$$98 \times 102 = (100 - 2)(100 + 2) = 10000 - 4 = 9996$$

7.

$$18^2 - 12^2 = (18 + 12)(18 - 12) = 30 \times 6 = 180$$