

展開 公式1 練習問題 解答編

I. 次の式を展開しなさい。

- ① $(x + 2)(x + 3) = x^2 + 5x + 6$
- ② $(x + 5)(x + 3) = x^2 + 8x + 15$
- ③ $(x + 7)(x + 4) = x^2 + 11x + 28$
- ④ $(x - 2)(x + 5) = x^2 + 3x - 10$
- ⑤ $(x + 2)(x + 5) = x^2 + 7x + 10$
- ⑥ $(x - 2)(x - 5) = x^2 - 7x + 10$
- ⑦ $(x + 2)(x - 5) = x^2 - 3x - 10$
- ⑧ $(x - 3)(x - 1) = x^2 - 4x + 3$
- ⑨ $(x - 1)(x + 3) = x^2 + 2x - 3$
- ⑩ $(x - 8)(x + 6) = x^2 - 2x - 48$

II. 次の式を展開しなさい。

- ① $(x + 4)(x + 3) = x^2 + 7x + 12$
- ② $(x + 5)(x + 1) = x^2 + 6x + 5$
- ③ $(x + 9)(x + 4) = x^2 + 13x + 36$
- ④ $(x - 2)(x + 6) = x^2 + 4x - 12$
- ⑤ $(x + 3)(x - 5) = x^2 - 2x - 15$
- ⑥ $(x - 3)(x - 5) = x^2 - 8x + 15$
- ⑦ $(x + 3)(x - 5) = x^2 - 2x - 15$
- ⑧ $(x - 3)(x + 5) = x^2 + 2x - 15$
- ⑨ $(x - 1)(x + 8) = x^2 + 7x - 8$
- ⑩ $(x - 7)(x + 6) = x^2 - x - 42$

III. 次の式を展開しなさい。

- ① $(x - 21)(x - 10) = x^2 - 31x + 210$
- ② $(y - 3)(y - 13) = y^2 - 16y + 39$
- ③ $(y - 8)(y + 3) = y^2 - 5y - 24$
- ④ $(a - 5)(a - 3) = a^2 - 8a + 15$
- ⑤ $(x - 7)(x + 4) = x^2 - 3x - 28$
- ⑥ $(x - 3)(x - 3) = x^2 - 6x + 9$
- ⑦ $(x + 3)(x + 3) = x^2 + 6x + 9$
- ⑧ $(x - 3)(x + 3) = x^2 - 9$
- ⑨ $(x - 5)(x + 5) = x^2 - 25$
- ⑩ $(x - 7)(x - 7) = x^2 - 14x + 49$

IV. 次の式を展開しなさい。

- ① $(m - 2)(m + 1) = m^2 - m - 2$
- ② $(x - 11)(x + 5) = x^2 - 6x - 55$
- ③ $(x - 20)(x - 5) = x^2 - 25x + 100$
- ④ $(y + 2)(y - 15) = y^2 - 13y - 30$
- ⑤ $(x + 8)(x - 4) = x^2 + 4x - 32$
- ⑥ $(x - 7)(x + 3) = x^2 - 4x - 21$
- ⑦ $(x + 5)(x - 4) = x^2 + x - 20$
- ⑧ $(x - 3)(x + 4) = x^2 + x - 12$
- ⑨ $(x - 2)(x - 3) = x^2 - 5x + 6$
- ⑩ $(x + 6)(x + 6) = x^2 + 12x + 36$