

tip: $(ax + b)(cx + d) = acx^2 + (ad + bc)x + bd$

$$(1) (2x + 6)^2 \\ = 4x^2 + 24x + 36$$

$$(2) (2x + 7)2x \\ = 4x^2 + 14x$$

$$(3) (2x + 1)(2x - 9) \\ = 4x^2 - 16x - 9$$

$$(4) (2x + 3)(x + 7) \\ = 2x^2 + 17x + 21$$

$$(5) (x - 5)(2x + 8) \\ = 2x^2 - 2x - 40$$

$$(6) (2x - 6)(x - 6) \\ = 2x^2 - 18x + 36$$

$$(7) (2x + 4)(x + 8) \\ = 2x^2 + 20x + 32$$

$$(8) (2x + 6)(2x + 5) \\ = 4x^2 + 22x + 30$$

$$(9) (x - 9)(x + 5) \\ = x^2 - 4x - 45$$

$$(10) (2x - 5)(x - 5) \\ = 2x^2 - 15x + 25$$

$$(11) (2x - 8)(x - 4) \\ = 2x^2 - 16x + 32$$

$$(12) (x - 6)(x + 7) \\ = x^2 + x - 42$$

$$(13) (2x - 9)(2x + 8) \\ = 4x^2 - 2x - 72$$

$$(14) (x + 4)(x + 6) \\ = x^2 + 10x + 24$$

$$(15) (x + 1)(x + 3) \\ = x^2 + 4x + 3$$

$$(16) (2x + 9)2x \\ = 4x^2 + 18x$$

$$(17) (2x - 7)(x + 8) \\ = 2x^2 + 9x - 56$$

$$(18) (2x - 7)(2x + 8) \\ = 4x^2 + 2x - 56$$

$$(19) (2x - 2)(2x + 4) \\ = 4x^2 + 4x - 8$$

$$(20) x(x - 4) \\ = x^2 - 4x$$

$$(21) (x - 10)(2x - 10) \\ = 2x^2 - 30x + 100$$

$$(22) (x - 3)(2x + 1) \\ = 2x^2 - 5x - 3$$

$$(23) 2x(2x - 2) \\ = 4x^2 - 4x$$

$$(24) (2x - 3)(x - 10) \\ = 2x^2 - 23x + 30$$

$$(25) (2x - 3)(2x - 10) \\ = 4x^2 - 26x + 30$$

$$(26) 2x(x - 7) \\ = 2x^2 - 14x$$

$$(27) (2x - 10)(2x + 3) \\ = 4x^2 - 14x - 30$$

$$(28) (x + 1)(x + 7) \\ = x^2 + 8x + 7$$

$$(29) (2x - 6)(2x + 2) \\ = 4x^2 - 8x - 12$$

$$(30) (x + 8)(2x + 7) \\ = 2x^2 + 23x + 56$$

$$(31) (2x - 10)(2x + 8) \\ = 4x^2 - 4x - 80$$

$$(32) (x - 6)(2x - 3) \\ = 2x^2 - 15x + 18$$

$$(33) (2x - 1)(2x + 4) \\ = 4x^2 + 6x - 4$$

$$(34) (2x - 9)(x + 3) \\ = 2x^2 - 3x - 27$$

$$(35) (x - 3)(2x - 10) \\ = 2x^2 - 16x + 30$$

$$(36) x(2x - 6) \\ = 2x^2 - 6x$$

$$(37) (2x - 7)(x + 9) \\ = 2x^2 + 11x - 63$$

$$(38) (2x + 6)(2x + 2) \\ = 4x^2 + 16x + 12$$

$$(39) (2x - 8)(x - 8) \\ = 2x^2 - 24x + 64$$

$$(40) (x - 2)^2 \\ = x^2 - 4x + 4$$