tip:
$$P(ax + b)(cx + d) = Pacx^2 + P(ad + bc)x + Pbd$$

(1)
$$6(x-5)$$

$$= 6x - 30$$

(2)
$$-(x-6)(x+7)$$

= $-x^2 - x + 42$

(3)
$$2(x+2)(3x-4)$$

= $6x^2 + 4x - 16$

$$(4) -(2x-5)(3x+2)$$
$$= -6x^2 + 11x + 10$$

$$(5) -(x-8)(4x+7)$$
$$= -4x^2 + 25x + 56$$

(6)
$$-2(x-6)(x+1)$$

= $-2x^2 + 10x + 12$

$$(7) (4x+7)(2x+9)$$
$$= 8x^2 + 50x + 63$$

$$(8) -9(3x+7) = -27x - 63$$

(9)
$$4(x+1)(5x-7)$$

= $20x^2 - 8x - 28$

$$(10) -2(x+1)(x-1)$$
$$= -2x^2 + 2$$

$$(11) -2(2x+3)(x-4)$$
$$= -4x^2 + 10x + 24$$

$$(12) \ 4(2x+5)(x+1)$$
$$= 8x^2 + 28x + 20$$

$$(13) -7(2x+7) = -14x - 49$$

$$(14) -(x-1)(3x+2)$$
$$= -3x^2 + x + 2$$

$$(15) 6(x+2)(x-2)$$
$$= 6x^2 - 24$$

$$(16) \ 3(x-3)(3x+8)$$
$$= 9x^2 - 3x - 72$$

$$(17) -2(2x+1)(3x-7)$$
$$= -12x^2 + 22x + 14$$

$$(18) -2(4x - 3)(x - 1)$$
$$= -8x^2 + 14x - 6$$

$$(19) -4(3x+4)(x-1)$$
$$= -12x^2 - 4x + 16$$

$$(20) -27(x-1) = -27x + 27$$

$$(21) \ 4(5x-2)(x-1)$$
$$= 20x^2 - 28x + 8$$

$$(22) -6(x-3)^2$$

= -6x² + 36x - 54

$$(23) (5x-2)(5x+8)$$
$$= 25x^2 + 30x - 16$$

$$(24) -2(x+3)(x-3)$$
$$= -2x^2 + 18$$

$$(25) -(4x+5)(x-1)$$
$$= -4x^2 - x + 5$$

$$(26) -2(x+4)(x+5)$$
$$= -2x^2 - 18x - 40$$

$$(27) -10(x+2)(x+1)$$
$$= -10x^2 - 30x - 20$$

$$(28) -(5x-7)(3x-7)$$
$$= -15x^2 + 56x - 49$$

$$(29) -6(x+1)(x+2)$$
$$= -6x^2 - 18x - 12$$

$$(30) -2(2x-1)(x+3)$$
$$= -4x^2 - 10x + 6$$

$$(31) 10(x-2)(x+2)$$
$$= 10x^2 - 40$$

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

$$(33) -(4x-1)(3x+1)$$
$$= -12x^2 - x + 1$$

$$(34) -2(2x+1)(5x-4)$$
$$= -20x^2 + 6x + 8$$

(35)
$$2(2x-3)(x-3)$$

= $4x^2 - 18x + 18$

$$(36) -(4x - 7)(x - 5)$$
$$= -4x^2 + 27x - 35$$

$$(37) -9(2x+9) = -18x - 81$$

$$(38) -(5x+1)(x+4)$$
$$= -5x^2 - 21x - 4$$

$$(39) (x-9)(3x+2)$$
$$= 3x^2 - 25x - 18$$

$$(40) (x+8)(x-1)$$
$$= x^2 + 7x - 8$$

$$(41) -(4x-9)(x-7)$$
$$= -4x^2 + 37x - 63$$

$$(42) -3(x-3)(x-2)$$
$$= -3x^2 + 15x - 18$$

$$(43)$$
 $-(2x-3)(4x+7)$

$$=-8x^2-2x+21$$

$$(44) 4(x-5)(x+1)$$
$$= 4x^2 - 16x - 20$$

$$(45) -2(2x-1)^2$$
$$= -8x^2 + 8x - 2$$

$$(46) \ 2(x-3)(x-6)$$
$$= 2x^2 - 18x + 36$$

$$(47) (5x+4)(4x-1)$$
$$= 20x^2 + 11x - 4$$

$$(48) -2(2x+1)(3x-2)$$
$$= -12x^2 + 2x + 4$$

$$(49) -(2x+5)(4x-7)$$
$$= -8x^2 - 6x + 35$$

$$(50) (4x+3)(5x-9)$$
$$= 20x^2 - 21x - 27$$

$$(51) (x+9)(3x-8)$$
$$= 3x^2 + 19x - 72$$

$$(52) -(x-6)(4x+7)$$
$$= -4x^2 + 17x + 42$$

$$(53) -2(3x+8)(x+5)$$
$$= -6x^2 - 46x - 80$$

$$(54) \ 2(3x-1)(x+3)$$
$$= 6x^2 + 16x - 6$$

$$(55) \ 2(x+7)(2x-1)$$
$$= 4x^2 + 26x - 14$$

$$(56) (5x+1)(x+9)$$
$$= 5x^2 + 46x + 9$$

$$(57) \ 3(x+2)(3x+4)$$
$$= 9x^2 + 30x + 24$$

$$(58) -(3x-2)(4x+7)$$
$$= -12x^2 - 13x + 14$$

$$(59) \ 3(x-4) \\ = 3x - 12$$

$$(60) \ 4(x-1)(2x+9)$$
$$= 8x^2 + 28x - 36$$

$$(61) -3(4x-7)(x-3)$$
$$= -12x^2 + 57x - 63$$

(62)
$$4(x-1)(x-4)$$

= $4x^2 - 20x + 16$

$$(63) -(3x+5)(3x-4)$$
$$= -9x^2 - 3x + 20$$

$$(64) -3(5x-7)(x-2)$$
$$= -15x^2 + 51x - 42$$

$$(65) -(x-5)(2x-3)$$
$$= -2x^2 + 13x - 15$$

(66)
$$6(x+2)(x+3)$$

= $6x^2 + 30x + 36$

$$(67) -(2x-7)(4x-5)$$
$$= -8x^2 + 38x - 35$$

$$(68) -(2x+3)(2x-3)$$
$$= -4x^2 + 9$$

$$(69) -2(2x+1)(3x+2)$$
$$= -12x^2 - 14x - 4$$

$$(70) \ 3(x-1)(x-6)$$
$$= 3x^2 - 21x + 18$$

$$(71) (4x-3)(3x+4)$$
$$= 12x^2 + 7x - 12$$

$$(72) (3x - 8)(x + 4)$$
$$= 3x^2 + 4x - 32$$

$$(73) 2(x+9)(x-3)$$
$$= 2x^2 + 12x - 54$$

$$(74) -(4x-1)(3x-5)$$
$$= -12x^2 + 23x - 5$$

$$(75) -3(3x+4)(x-2)$$
$$= -9x^2 + 6x + 24$$

$$(76) \ 3(x+2)(x+9)$$
$$= 3x^2 + 33x + 54$$

$$(77) 4(x+3)(x-3)$$
$$= 4x^2 - 36$$

$$(78) -2(4x+7) = -8x - 14$$

$$(79) -3(x+8) = -3x - 24$$

$$(80) 5(5x+6)(x+2)$$
$$= 25x^2 + 80x + 60$$

$$(81) \ 3(x-3)(5x+4)$$
$$= 15x^2 - 33x - 36$$

$$(82) \ 2(3x+8) = 6x + 16$$

$$(83) \ 2(2x+3)(x+9)$$
$$= 4x^2 + 42x + 54$$

$$(84) (5x - 6)(x + 10)$$
$$= 5x^2 + 44x - 60$$

$$(85) \ 7(2x - 5) = 14x - 35$$

$$(86) (x-7)(3x-2)$$

$$=3x^2-23x+14$$

$$(87) (x-10)(2x+1)$$
$$= 2x^2 - 19x - 10$$

$$(88) -(x+3)(5x+3)$$
$$= -5x^2 - 18x - 9$$

$$(89) -8(x-4)(x+1)$$
$$= -8x^2 + 24x + 32$$

$$(90) (x+9)(2x-3)$$
$$= 2x^2 + 15x - 27$$

$$(91) -(2x-5)(x+10)$$
$$= -2x^2 - 15x + 50$$

$$(92) -(x+1)(5x-4)$$
$$= -5x^2 - x + 4$$

(93)
$$2(x-2)(x-4)$$

= $2x^2 - 12x + 16$

$$(94) (5x+3)(x-1)$$
$$= 5x^2 - 2x - 3$$

$$(95) \ 4(x-2)(2x+5)$$
$$= 8x^2 + 4x - 40$$

$$(96) 8(5x - 6)$$
$$= 40x - 48$$

$$(97) (4x + 7)(5x + 7)$$
$$= 20x^2 + 63x + 49$$

$$(98) -(2x-7)(2x+1)$$
$$= -4x^2 + 12x + 7$$

$$(99) -3(x+2)(x+5)$$
$$= -3x^2 -21x -30$$

$$(100) (5x-1)(x+1)$$
$$= 5x^2 + 4x - 1$$