tip:
$$P(ax + b)(cx + d)$$

= $P\{acx^2 + (ad + bc)x + bd\}$
= $Pacx^2 + P(ad + bc)x + Pbd$

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

$$(2) (5x-9)^2$$
$$= 25x^2 - 90x + 81$$

$$(3) (5x - 8)(3x - 5)$$
$$= 15x^2 - 49x + 40$$

$$(4) \ 8(x-9) = 8x - 72$$

$$(5) -10x(x-1) = -10x^2 + 10x$$

(6)
$$-(3x+2)(x+7)$$

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

$$(7) \ 30(x+1) = 30x + 30$$

(8)
$$-(3x-4)(x+2)$$

= $-(3x^2 + 2x - 8)$
= $-3x^2 - 2x + 8$

(9)
$$8(x+2)(x+3)$$

= $8(x^2 + 5x + 6)$
= $8x^2 + 40x + 48$

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

$$(11) -(3x-1)(4x-3)$$

$$= -(12x^2 - 13x + 3)$$

$$= -12x^2 + 13x - 3$$

$$(12) (x+5)^2$$

= $x^2 + 10x + 25$

$$(13) (x+1)(4x+9)$$
$$= 4x^2 + 13x + 9$$

(14)
$$8(2x-5)(x+1)$$

= $8(2x^2 - 3x - 5)$
= $16x^2 - 24x - 40$

$$(15) (x+5)(3x-7)$$
$$= 3x^2 + 8x - 35$$

$$(16) -(4x+3)(3x-2)$$

$$= -(12x^2 + x - 6)$$

$$= -12x^2 - x + 6$$

$$(17) -2(x-4)(2x+3)$$
$$= -2(2x^2 - 5x - 12)$$

$$=-4x^2 + 10x + 24$$

$$(18) -(2x+5)(5x+7)$$

$$= -(10x^2 + 39x + 35)$$

$$= -10x^2 - 39x - 35$$

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

$$(20) \ 2(2x-3)(3x-2)$$
$$= 2(6x^2 - 13x + 6)$$
$$= 12x^2 - 26x + 12$$

$$(21) (3x+1)(2x+9)$$
$$= 6x^2 + 29x + 9$$

$$(22) (4x+3)(2x-5)$$
$$= 8x^2 - 14x - 15$$

$$(23) \ 3(x+2)(5x-6)$$
$$= 3(5x^2 + 4x - 12)$$
$$= 15x^2 + 12x - 36$$

$$(24) \ 2(2x+1)(4x+3)$$
$$= 2(8x^2 + 10x + 3)$$
$$= 16x^2 + 20x + 6$$

$$(25) 4(x-4)(x+2)$$

$$= 4(x^2 - 2x - 8)$$

$$= 4x^2 - 8x - 32$$