M9 - 5.4 - Distribution HW

Distribute the following by multiplying the number in front/behind of the brackets by both numbers inside the brackets.

$2(x + 5) =$

$5(3 - x) =$

$-3(x + 7) =$

$4(x + 5)$

$-9(x + 3) =$

$(x - 2)7=$

$6(3x + 4) =$

$-4(7x + 4) =$

$-2(9x + 11) =$

$-8(3x - 7) =$

$(6x - 9)3 =$

$5(3x - 8) =$

$x(3x + 7) =$

$4x(x - 2) =$

$(7x - 3)x =$

$3x^2(3x - 5) =$

$-7x(3 + 8x) =$

$5x(6x - 3x) =$

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

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

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

$7x(2x^2 + 5x + 7) =$

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

$(x + 3)(x + 2)$

$(n + 5)(n + 9)$

$(x + 6)(x + 3)$

$(x + 2)(x + 12)$

$(x + 11)(x + 9)$

$(p + 5)(p + 7)$

$(m - 3)(m - 8)$

$(x - 14)(x - 2)$

$(x - 12)(x - 3)$

$(x - 6)(x + 6)$

$(n - 3)(n + 3)$

$(x + 4)(x - 4)$

$(x + 5)(x - 5)$

$(p - 12)(p + 6)$

$(x + 9)(x - 7)$

$(y - m)(y + 2)$

$(x - 9)(x + z)$

$(x + y)(x - y)$

$(6x + 3)(x + 3)$

$(5q - 4)(q - 7)$

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

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

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

$(9c - d)(d + 7)$

M9 - 5.4 - Dist/Foil/Combine HW

$2(x+4)$ $2x(x^2+2x-3)$ $-2x(x+1)$ Distribution

$(x+2)(x-4)$ $-(2x-5)(x+3)$ $(x+4)(x-4)$ $(x-2)^2$ (Foil)
Distribute
Combine

$(x-2)(x^2-4x+1)$ $(2x+1)(x-3)(x+4)$ $(x-2)^3$ Foil
Triple Foil
Combine

$(x+2)+(x-5)$ $(2x+2)-(x-5)$ Distribute
Combine

$(x-1)+(x+2)(x-3)$ $(x+5)(x-2)-(x+3)$ Foil
Distribute
Combine

$(x+3)-(x-4)(x+1)$ $(x+8)-(x+2)(x-1)$ Foil
Distribute
Combine

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

$(1-x)(2+x)$
$(3-x)(x-4)$
$2(x+3)(x-4)$
$-2x(x+5)(x-2)$

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

$2(x-1)-3(x+2)$
$3x(x+2)-2x(x-5)$

$(x-2)(x+3)-(x-2)(x+3)$
$3x(x+1)(x-3)-2(x+4)(x-3)$