tip1: $(ax + bi)(cx + di)$

$\quad = acx^2 + iadx + ibcx - bd$

tip2: $i^2 \quad = -1$

(1) $(2x - 7i)(4x - 7i)$

$\quad = 8x^2 - 42ix - 49$

(2) $(x + 2i)(x + 9i)$

$\quad = x^2 + 11ix - 18$

(3) $(3x - 10i)(4x - i)$

$\quad = 12x^2 - 43ix - 10$

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

$\quad = -(x^2 + 8ix - 16)$

$\quad = -x^2 - 8ix + 16$

(5) $(x - 7i)(4x - 5i)$

$\quad = 4x^2 - 33ix - 35$

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

$\quad = x^2 - ix + 2$

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

$\quad = -(2x^2 - 5ix - 3)$

$\quad = -2x^2 + 5ix + 3$

(8) $(3x - 8i)(5x - 3i)$

$\quad = 15x^2 - 49ix - 24$

(9) $(x + i)(x + 3i)$

$\quad = x^2 + 4ix - 3$

(10) $-2(x - 3i)(5x - 6i)$

$\quad = -2(5x^2 - 21ix - 18)$

$\quad = -10x^2 + 42ix + 36$

(11) $-(x + 8i)(2x + 7i)$

$\quad = -(2x^2 + 23ix - 56)$

$\quad = -2x^2 - 23ix + 56$

(12) $(x + 2i)(4x - i)$

$\quad = 4x^2 + 7ix + 2$

(13) $-(2x - 9i)(5x + 8i)$

$\quad = -(10x^2 - 29ix + 72)$

$\quad = -10x^2 + 29ix - 72$

(14) $(3x - 4i)(3x + i)$

$\quad = 9x^2 - 9ix + 4$

(15) $-(3x + 7i)(3x + 8i)$

$\quad = -(9x^2 + 45ix - 56)$

$\quad = -9x^2 - 45ix + 56$

(16) $(4x - 5i)(4x - i)$

$\quad = 16x^2 - 24ix - 5$

(17) $(x - 2i)(4x + 7i)$

$\quad = 4x^2 - ix + 14$

(18) $(x - 4i)(4x - 5i)$

$\quad = 4x^2 - 21ix - 20$

(19) $(3x - 8i)(4x - 5i)$

$\quad = 12x^2 - 47ix - 40$

(20) $-(x - 9i)(4x + i)$

$\quad = -(4x^2 - 35ix + 9)$

$\quad = -4x^2 + 35ix - 9$