

## Correction du contrôle sur les développements

**Solution 1**  $f(x) = (5 - 5x)(7x - 5) = 35x - 25 - 35x^2 + 25x = \boxed{-35x^2 + 60x - 25}$ .

**Solution 2**  $f(x) = (1 - 7x)(5x - 6) = 5x - 6 - 35x^2 + 42x = \boxed{-35x^2 + 47x - 6}$ .

**Solution 3**  $f(x) = (-10x - 8)(4 - 7x) = -40x + 70x^2 - 32 + 56x = \boxed{70x^2 + 16x - 32}$ .

**Solution 4**  $f(x) = (2x - 9)(9x + 1) = 18x^2 + 2x - 81x - 9 = \boxed{18x^2 - 79x - 9}$ .

**Solution 5**  $f(x) = (3 - 5x)(7x + 8) = 21x + 24 - 35x^2 - 40x = \boxed{-35x^2 - 19x + 24}$ .

**Solution 6**  $f(x) = (-2x - 2)(10x - 10) = -20x^2 + 20x - 20x + 20 = \boxed{20 - 20x^2}$ .

**Solution 7**  $f(x) = (-3x - 9)(4x + 4) = -12x^2 - 12x - 36x - 36 = \boxed{-12x^2 - 48x - 36}$ .

**Solution 8**  $f(x) = (7x + 2)(8x - 1) = 56x^2 - 7x + 16x - 2 = \boxed{56x^2 + 9x - 2}$ .

**Solution 9**  $f(x) = (2 - 2x)(x + 5) = 2x + 10 - 2x^2 - 10x = \boxed{-2x^2 - 8x + 10}$ .

**Solution 10**  $f(x) = (-2x - 10)(6x + 2) = -12x^2 - 4x - 60x - 20 = \boxed{-12x^2 - 64x - 20}$ .