7 Pour chaque expression, proposer une écriture plus simple.

$A = 3 \times (2 \times x - 5) + 6 \times x \times x$
$B = 5 \times x \times y - x \times (y + 2) \times 4 + 11 \times y$
$C = -6 \times x + x \times 2 \times x + 4 \times (11 + 3 \times x)$
$D = 3 \times (2 \times x + 1)(2 \times x + 1)$
$E = 4 \times x \times y + 2 \times (6 \times x + 7 \times y) - x \times 3 \times y$

$$A = 3(2x - 5) + 6x^2$$

$$B = 5xy - 4x(y + 2) + 11y$$

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

$$D = 3(2x + 1)(2x + 1) = 3(2x + 1)^2$$

$$E = 4xy + 2(6x + 7y) - 3xy$$

11 Développer les expressions suivantes.

$A = -3(x + 7)$ $B = 4(2x - 3)$
$C = -11(-x - 5)$ $D = x(2x + 9)$
$E = -3x(6 + 4x)$ $F = -2x(10 - 5x)$

Correction :

$$A = -3x - 21 \qquad B = 8x - 12 \qquad C = 11x + 55 \qquad D = 2x^2 + 9x$$

$$E = -18x - 12x^2 \qquad F = -20x + 10x^2$$