

Test Calcul littéral

Simplifier et réduire :

$8 - 2 \times x = 8 - 2x$	$x \times (-4) \times x \times 6 = -24x^2$
---------------------------	--------------------------------------------

Développer et réduire :

$3(x-6) = 3x - 3 \times 6$ $= 3x - 18$	$-4x(-x^2 + 6) = (-4x) \times (-x^2) + (-4x) \times 6$ $= 4x^3 - 24x$
$(3x+7)(-7x-5) =$ $3x \times (-7x) + 3x \times (-5) + 7x \times (-7x) + 7x \times (-5)$ $= -21x^2 - 15x - 49x - 35$ $= -21x^2 - 64x - 35$	$(2x+6)^2 = 4x^2 + 24x + 36 \quad (\text{IR})$
$(7x-5)^2 = 49x^2 - 70x + 25 \quad (\text{IR})$	$(2x+4)(2x-4) = 4x^2 - 16 \quad (\text{IR})$

Factoriser

$3x^2 + x = x(3x+1)$	$12 - 3x = 3(4-x)$
$(3x+1)(2x+5) + (3x+1)(x-2) =$ $(3x+1) [2x+5 + (x-2)]$ $= (3x+1)(3x+3)$	$(3x+1)(2x+5) - (3x+1)(x-2) =$ $(3x+1) [2x+5 - (x-2)]$ $= (3x+1)(x+7)$
$x^2 + 6x + 9 = (x+3)^2 \quad (\text{IR})$	$4x^2 - 20x + 25 = (2x+5)^2 \quad (\text{IR})$
$49x^2 - 36 = (7x+6)(7x-6) \quad (\text{IR})$	

Brouillon :

Test Calcul littéral

Simplifier et réduire :

$12 - 3 \times x = 12 - 3x$	$x \times (-8) \times (-x) \times 2 = 16x^2$
-----------------------------	----------------------------------------------

Développer et réduire :

$3(2x - 4) = 3 \times 2x + 3 \times (-4)$ $= 6x - 12$	$-5x(-x^2 + 2) = (-5x) \times (-x^2) + (-5x) \times 2$ $= 5x^3 - 10x$
$(x + 7)(-6x - 4) = x \times (-6x) + x \times (-4)$ $+ 7 \times (-6x) + 7 \times (-4)$ $= -6x^2 - 4x - 42x - 28$ $= -6x^2 - 46x - 28$	$(3x + 4)^2 = 9x^2 + 24x + 16 \quad (\text{IR})$
$(6x - 3)^2 = 36x^2 - 36x + 9 \quad (\text{IR})$	$(6x + 8)(6x - 8) = 36x^2 - 64 \quad (\text{IR})$

Factoriser

$2x^2 + x = x(2x + 1)$	$16 - 4x = 4(4 - x)$
$(3x + 4)(3x - 5) + (3x + 4)(x + 2) =$ $(3x + 4) [3x - 5 + (x + 2)]$ $= (3x + 4) (4x - 3)$	$(3x + 4)(3x - 5) - (3x + 4)(x + 2) =$ $(3x + 4) [3x - 5 - (x + 2)]$ $= (3x + 4) [3x - 5 - x - 2]$ $= (3x + 4) (2x - 7)$
$x^2 + 8x + 16 = (x + 4)^2 \quad (\text{IR})$	$4x^2 - 24x + 36 = (2x - 6)^2 \quad (\text{IR})$
$49x^2 - 64 = (7x + 8)(7x - 8) \quad (\text{IR})$	

Brouillon :