

Solution des exercices

Solutions

Solution 1 $A(x) = -6(5x - 4)(5x - 1)$.

Solution 2 $A(x) = 10(x + 2)$.

Solution 3 $A(x) = -(5x + 3)(11x - 1)$.

Solution 4 $(-x - 9)(4x - 4) - (4x - 4)(5x - 7) = -8(x - 1)(3x + 1)$.

Solution 5 $(-4x - 1)(-2x - 8) - (-4x - 1)(-x - 4) = (x + 4)(4x + 1)$.

Solution 6 $3(3x + 2)(9x - 2) + (7x + 1)(9x - 2) = (9x - 2)(16x + 7)$.

Solution 7 $-4(x + 1)(10x + 7) - (9x - 1)(10x + 7) = -(10x + 7)(13x + 3)$.

Solution 8 $f(x) = 64x^2 + 144x + 81 = (8x + 9)^2$.

Solution 9 $f(x) = 49x^2 - 126x + 81 = (7x - 9)^2$

Solution 10 $f(x) = 4x^2 - 32x + 64 = 4(x - 4)^2$

Solution 11 $f(x) = 25x^2 - 100x + 100 = (5x - 10)^2 = 25(x - 2)^2$

Solution 12 $f(x) = 81x^2 - 4 = (9x - 2)(9x + 2)$

Solution 13 $f(x) = \frac{x^2}{4} + \frac{7x}{2} + \frac{49}{4} = \left(\frac{x}{2} + \frac{7}{2}\right)^2$ ou $f(x) = \frac{1}{4}(x + 7)^2$

Solution 14 $f(x) = \frac{25x^2}{9} - 10x + 9 = \left(\frac{5x}{3} - 3\right)^2 = \frac{1}{9}(5x - 9)^2$

Solution 15 $f(x) = 81x^2 - \frac{1}{64} = \left(9x + \frac{1}{8}\right)\left(9x - \frac{1}{8}\right)$

Solution 16 $A(x) = -8(5x + 1)(9x + 11)$.

Solution 17 $A(x) = (4x + 9)(11x - 1)$.

Solution 18 $A(x) = -6(3x - 1)(31x - 5)$.