

| EXERCICES SUR FACTORISATION , DEVELOPPEMENT |                                     |   |                    |   |                  |
|---|-------------------------------------|---|--------------------|---|------------------|
| N°  | texte                               |   | factorisation      |   | developpement    |
| 1   | $(x-3)(4x-1) - (x-3)^2$             | = | $(x-3)(3x+2)$      | = | $3x^2-7x-6$      |
| 2   | $(2x-5)^2 - 3(5-2x)$                | = | $(2x-5)(2x-2)$     | = | $4x^2-14x+10$    |
| 3   | $(6a-3)^2 - (2a-1)$                 | = | $(2a-1)(18a-10)$   | = | $36a^2-38a+10$   |
| 4   | $(a-1)^2 -5a +5$                    | = | $(a-1)(a-6)$       | = | $a^2-7a+6$       |
| 5   | $144x^2 -25$                        | = | $(12x-5)(12x+5)$   | = | $144x^2-25$      |
| 6   | $9x^2 - 6x + 1$                     | = | $(3x-1)^2$         | = | $9x^2-6x+1$      |
| 7   | $(2x+3)^2 - 16$                     | = | $(2x+7)(2x-1)$     | = | $4x^2+12x-7$     |
| 8   | $49x^2 - (3x-4)^2$                  | = | $(10x-4)(4x+4)$    | = | $40x^2+24x-16$   |
| 9   | $(6a-1)^2 - 4a^2$                   | = | $(8a-1)(4a-1)$     | = | $32a^2-12a+1$    |
| 10  | $12x^2 - 3 + (2x+1)^2$              | = | $(2x+1)(8x-2)$     | = | $16x^2+4x-2$     |
| 11  | $(3x-1)^2 - 7$                      | = | $(3x-1+7)(3x-1-7)$ | = | $9x^2-6x-6$      |
| 12  | $(2x+5)^2 - 9(4x^2-25)$             | = | $(2x+5)(-16x+50)$  | = | $-32x^2+20x+250$ |
| 13  | $4(3x+2)^2 - 9(5x-1)^2$             | = | $(21x+3)(-9x+5)$   | = | $-189x^2+78x+15$ |
| 14  | $(3x-1)^2 - 4(x-5)^2$               | = | $(5x-11)(x+9)$     | = | $5x^2+34x-99$    |
| 15  | $(4x^2-1)(x-2)+(1-2x)(x^2-4)$       | = | $(2x-1)(x-2)(x-1)$ | = |                  |
| 16  | $4(7x-1)^2 - 25(3x+1)^2$            | = | $(29x+3)(-x-7)$    | = | $29x^2-206x-21$  |
| 17  | $(2x-3)(x+5) - (3-x)^2 +2x-3$       | = | $(2x-3)(-x+9)$     | = | $-2x^2+24x-27$   |
| 18  | $(4x-2)(7x-3) -4x^2+4x-1$           | = | $(2x-1)(12x-5)$    | = | $24x^2-22x+5$    |
| 19  | $(1-x)^2+x^2-1+(5x-)(x+3)-1+x$      | = | $(x-1)(7x-16)$     | = | $7x^2-23x+16$    |
| 20  | $(x+2)(3x-4)-2(3x-4)^2+16-9x^2$     | = | $(3x-4)(-8x+6)$    | = | $24x^2+50x-24$   |
| 21  | $(9x-3)(x+5) - 4(9x^2-1)$           | = | $(3x-1)(-9x+11)$   | = | $-27x^2+42x-11$  |
| 22  | $25x^2-30x+9+(10x-6)(x+2)-50x^2+18$ | = | $(5x-3)(-3x-5)$    | = | $-15x^2-16x+15$  |
| 23  | $2(4x^2-4x+1)+(3x+2)(5-10x)$        | = | $(2x-1)(-11x-12)$  | = | $-22x^2+35x+12$  |