**3EM en 3EE : Maandag 29/9/2014 : Bewerkingen met Reële Getallen**

**Werk Uit en schrijf zo eenvoudig mogelijk met a,b elementen van R**

|  |  |  |  |
| --- | --- | --- | --- |
| **a + (b-a)** | **b** | **a – (a-b)** | **b** |
| **b - (a+b)** | **-a** | **a.(b-a)** | **ab-a²** |
| **a(a+b)** | **a²+ab** | **(a+b)(a-b)** | **a²-b²** |
| **x-[y-(-x+y)]** | **0** | **x+[y-(x+y)-(-x-y)]** | **3x+y** |
| **-(x-y)-[-y-(x-y) +x]** | **-x+3y** | **(x-y-[x-(y-x)-y]** | **-x+y** |
| **3(a-2) -5(a+4)** | **-2a-26** | **(-7a-2) -3 (a+5)** | **-10a-17** |
| **(a+2).(-3) -5 (a+8)** | **-8a-46** | **(2a -3)(a+5)** | **2a² + 7a - 15** |
| **(3a-4)(2a+1) –(8a+7)(a-6)** | **-2a² + 36a + 46** | **(4a-5)(a-7)-(a-3)(-2a)** | **6a² - 39a – 35** |
| **(-6a-9)(a+4) +(2-3a)(a-2)** | **-9a² - 25a – 40** | **(2a+3)²** | **4a² + 12a + 9** |
| **-(3a+7)(4a) -5a(-a+3)** | **-7a² - 43a** | **a²-(a+b).a** | **-ab** |
| **(x-y).[(x+y) –(x-y)]** | **2xy -2y²** | **[x-(x-y)]x** | **Yx** |
| **3(x-y)-4(x+y)** | **-x-y** | **2[x-y+4.(2x-3y)** | **18x -26y** |
| **(2a-3)(a+4)** | **2a² +5a – 12** | **(3a+2)(a-2)-4(a+7)** | **3a² -8a -32** |
| **(a-b)(2a+b)-(a+3)(b-4)** | **2a² -2ab - b² + 4a -3b + 12** | **(3a-4b)(2a+b)-2(4a+b)** | **6a² -5ab -4b² -8a -2b** |
| **(a-3b)²** | **a² -6ab +9b²** | **(3a-b)²** | **9a² -6ab +b²** |

**Ontbind in factoren**

|  |  |  |  |
| --- | --- | --- | --- |
| **ab-ac** | **a(b-c)** | **2ab+6ac** | **2a(b+3c)** |
| **5a² -10a** | **5a(a-2)** | **P²-p** | **P(p-1)** |
| **-12m²-8m** | **-4m(3m+2)** | **ab-a** | **a(b-1)** |
| **(a+2).b –(a+2).3** | **(a+2)(b-3)** | **x.(x+3) +7(x+3)** | **(x+7)(x+3)** |
| **3a(a-3)-8(a-3)** | **-5(a-3)** | **(2a-5).b -6(5-2a)** | **(b+6)(2a-5)** |
| **4ab +10a - 6b -15** | **2b(2a-3) + 5(2a-3) = (2b+5)(2a-3)** | **-35ab + 40a + 14b -16** | **7b(-5a+2) -8(-5a+2) =**  **(7b-8)(-5a+2)** |
| **a² -3a – 2ab – 6b** | **a(a-2b) -3(a-2b) = (a-3)(a-2b)** | **(a+b)(a-2) + (a+b)(5-a)** | **3(a+b)** |
| **6a²b – 15ab** | **3ab(2a -5)** | **n²p +np²** | **np(n+p)** |
| **13x²yz -26xy²z** | **13xyz(x-2y)** | **7m²n² - 7mn** | **7mn(mn-1)** |
| **(x+y).a -3(x+y)** | **(a-3)(x+y)** | **7(2a-b) -3(2a-b)** | **4(2a-b)** |
| **(t+4)(t-2)-6(t-2)** | **(t-2)(t-2) = t² -8t +4** | **2p(p+4) +(p-3)(p+4)** | **3(p -1)(p+4)** |