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| **Таблица 1 Представьте трехчлен в виде квадрата суммы или квадрата разности двучлена** |
|  | **А** | **Б** | **В** | **Г** |
| **1** | ***x2 + 2xy + y24x2 +4x +136 – 12a + a21 – 2a +a225а²+10а+1*** | ***a2-2ab + b2c2+10c +25p2 +36 -12p9 +a2 – 6a******81а²-18аb+b²*** | ***m2 – 16m + 6481 + m2 + 18m******25 + x2 -10x******9а²-6аb+ b²******m2+n2– 2mn*** | ***4 – 4x +x264 +16b +b2x2 – 14x +49a2+81 – 18a******2cd +c2 +d2*** |
| **2** | ***4x2 +12x + 91 + y2 – 2y28xy +49x2 + 4y2m4 + 2m2n3 + n61 – 6c2 + 9c4*** | ***25b2 + 10b+ 18ab + b2 + 16a225a2 +49 + 70a49a2 + 28ab2 + 4b4a6 – 6a3 b2 + 9b4*** | ***9x2 – 24xy + 16y2100x2 + y2 + 20xy25x2 -20x +416– 8ab + a2 b2x4 + 2x2y +y2*** | ***81a2 -18ab +b2b2 +4a2 – 4ab4x4 -12x2 +99 + 6a2b + a4b24y2-20yz +25z2*** |
| **3** | ***100x²+y²+20xy******-28a + 4a2 +494x4 – 12x2y2+9y44a4– 12a2 +9*** | ***-36m2 + 60m – 2516p2 + 8pk3 +k681x6 +72x3y2 + 16y416x10 + 4x5 + 0,25*** | ***28xy+49x²+4y²******20a2b – 25b2 – 4a44x4 – 12x2y2 + 9y4x4 +10x2 +25*** | ***24x2y2 – 9x4 – 16y4m4 – 20m2n +100n20,09 – 3b3 +25b60,49c4 + 1,4c2 +1*** |

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| ***Таблица 2* Разложить на множители *(представьте в виде произведения двучленов).*** |
| ***1*** | ***a2 – 94 – y2 9x2 – 49a2 – 16m2*** | ***4 – y2b2 – c24a2 – 2525x2 – y2*** | ***25 – x2x2 – a216 – 49y24x2 – 1*** | ***p2 – 49m2 – 0,2525x2 – y21 – 36a2*** |
| ***2*** | ***b2 + 19 – b448m2 – n236m6 – 49k4n2*** | ***x2y2 – 4y4 –x225x2 – 49y2100 + 25n2*** | ***0,09x2 – y2y6 – 925 + x2 0,01m2 – 25n8*** | ***0,16 – 4b2x10 – 250,64 – 49k836a4 – b6*** |
| ***3*** | ***x6 – 1,44y12 – 164x2y4 – 9******9a2b2 – 64x4*** | ***1,21p2 – a6x2 – 1******0,25a2 – 1******100x4 – 9y10*** | ***a2 – 0,01******0,04a6 – 0,25b40,09x6 – 0,49y2******y² - 0,09*** | ***x10 – y80,04x4 – 0,25y21,69y14 – 1,21121m8n8 – 9*** |

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| **Таблица 3 Выполнить умножение *(произведение разности и суммы двух выражений).*** |
| ***1*** | ***(x –y)(x +y)(2x – 1)(2x+1)(8c + 9d)(8c – 9d)(1 – 3k)(1 +3k)*** | ***(p – q)(p +q)(7+3y)(7-3y)(8b+5a)(5a – 8b)(5x-10y)(5x+10y)*** | ***(p-5)(p+5)(m-3n)(3n+m)(7x-2)(2+7x)(2m+n)(2m-n)*** | ***(9а-b²)(b²+9а)*** ***(x-3)(x+3)******(4y+m)(m-4y)******(4x + 3y)(3y – 4x)*** |
| ***2*** | ***(a2-3)(a2+3)(y-a2)(y+a2)******(b3-c)(b3 +c)(m2-p3)(m2+p3)*** | ***(4p+q)(q-4p)*** ***(x2 +m)(m-x2)(x3-2y4)(x3 +2y4)(0,1a – b)(0,1a +b)*** | ***(4+ y²)(y² - 4)*** ***(x2 – 2)(x2 +2)(a2 +1)(1 –a2)(2x2 +3y)(3y-2x2)*** | ***(7+ 3y)(3y - 7)******(8c+ 9d)(9d - 8c)*** ***(a3 – 2x)(a3 +2x)******(a2-4)(a2+4)*** |
| ***3*** | ***(2a-3b)(2a+3b)(10x-6c)(10x+6c)(5a8 – 6x3)(6x3 +5a8)*** | ***(2y+3z)(2y-3z)(2a+x2)(2a –x2)(x4 –a5)(a5 +x4)*** | ***(y2 – b7)(y2 + b7)(x3 +5)(x3 -5)(10a – 0,2x3)(0,2x3 +10a)*** | ***(3a-5)(5+3a)******(5a2 – 2x3)(2x3 +5a2)******(2x - 1)(2x+ 1)*** |
| ***4*** | ***(5x2+2y3)(5x2-2y3)(a3 – b2)(a3 +b2)(0,7x +y2)(0,7x-y2)(0,4c+0,8y2)(0,8y2-0,4c)*** | ***(c4-d2)(d2 +c4)(0,3a-b3)(b3 +0,3a)(2x5-3y2)(2x5 +3y2)(0,6x +0,9y3)(0,9y3-0,6x)*** | ***(5x2-0,4y2)(0,4y2+5x2)(9z6-4y3)(9z6 +4y3)(0,2m2 +0,3y5)(0,3y5-0,2m2)(1,1x2-d)(d +1,1x2)*** | ***(5x²+ 2y²)(5x²- 2y²)******(1,2c2 +d)(1,2c2-d)******(m4-n7)(n7 +m4)******(0,4x6– 0,7y9)(0,7y9+0,4x6*** |

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| **Таблица 4. . Представьте в виде многочлена.** |
|  | ***А***  | ***Б***  | ***В*** | ***Г***  |
| ***1*** | ***(х + у)²******2a(3b +5)(x + 3)(x +1)(b – c)(b + c)(a – 5)2(m-n)(m2 + mn +n2)*** | ***(p-g)²*** ***(c+8)(c+2)-a(b + 3)(6 + x) 2(y+4)(y-4)(x+y)(x2–xy +y2)*** | ***(в + 3)²******(m-2n)(-a)(m-11)(m+2)(x-2)(x+2)(7-x) 2(1+2k)(1-2k+4k2)*** | ***(у - 9)²*** ***(2x-y)(2x+y)(4-x)(16+4x+x2)-x(2x+5)(a-3b)(3b+a)(2m+1) 2*** |
| ***2*** | ***(b + 6) 2a(3a2+ a)(p2– pq +q2)(p + q)(1-p)(p+1)(n-3)(n-10)*** | ***b(2b3 – 7)(m -11)(m -2)(2x+3y) 2(2x-1)(1+ 2x)(a2+ b2+ab)(a-b)*** | ***4m3 (n-5m)(a-1)(a2 +a +1)(a+b)(2a – 3b)(2b+c)(c -2b)(6 – 5m) 2*** | ***(8x-7) 2(7a-2)(a-3)(4a+5b)(16a2-20ab+25b2)-5p2 (2p4-3)(1+a)(a-1)*** |
| ***3*** | ***(1-m)(1 +m + m2)(-a-4cd)(-d)(3m– 2k)(2k+3m)(-3 –x)(x+1)(2a -7b) 2*** | ***(y-5)(y+6)(3y + 2) 2(a2 +3)(3-a2)-x(2x +5)(x+4)(x2 – 4x +16)*** | ***(2a-1)(4a2+2a+1)(2k-1)(-1)(x 2–a)(2 +x)(7x +4) 2(y-a2)(y+a2)*** | ***(5p-2) 2(0,5b+10c)(10c-0,5b)m(1-m)(3a+2)(9a2-6a+4)(2y2-3)(y2+2)*** |
| ***4*** | ***(2y -2)(4 –y)2a(3a -2)(0,1x-0,9)(0,1x+0,9)(2x + 0,2y) 2(2 + k)3*** | ***(2a-9b)(2a +9b)-3c 2 (2c-1)(a -1)(a+3)(-7k +1) 2(m– 0,3) 3*** | ***(2b+3)(3b-2)(b -2a)5ab(a2-4)(a2+4)(2a-3) 2(10-a) 3*** | ***(6x+1) 2(5x-c)(x-5c)-4x3 (x 2–a)(x3+5)(5-x3)(p+3) 3*** |

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| ***Таблица 5.* Разложить на множители *(различные способы*** |
|  | ***А***  | ***Б***  | ***В***  | ***Г***  |
| ***1*** | ***x2 -165y-10xy49a2+9b2+42ab4x2-12xy+9y2******125 - а³*** | ***a2 +2ab+1m3-n325 – a2y2 +10y+25-4,5ay-9by*** | ***4 -4x+x210x-25y-16y2-12yk2– 6,25b3 – 125*** | ***7n – 14900 –p2100m2 -100m+2564 – x3m9 –n3*** |
| ***2*** | ***a9 – b30,25a2 – 11 -12p+36p25b3 – 15aba2 – 10b +25b2*** | ***16x2+81y2-72xyx3 – 14x2 -9x2y +xy21,21b2+4,4bc+4c2*** | ***6x2 +3,6x40c+16+25c2c3 – c4+2c51 + b³2,4ab+0,16a2+9b2*** | ***x3 – x1 +c3-5x5 -15x39m2 – 6m+1******a2 – 0,04*** |
| ***3*** | ***8 +a3a2 – 6ab+9b29z2 -25p2 +36 -12py6 +2y3 +1*** | ***144y2-16k29a2+24ab+16b2m3 +27ax2 +3ax81+m2+18m*** | ***p3 +k91 -6c2+9c418ab3-9b40,36m2-25n2******p²- а²b²*** | ***58x -29y36a2 – 49x2 – 9y28ab – 6ac16-8ab+a2b2*** |
| ***4*** | ***2a5 -4a34x4-12x2+949x2 – 121a225x2-10xy+y2x3– 1000*** | ***100a2 – 25b24-20c+25c2a3 – 8b327m3+1m2 -16m+64*** | ***c3 +64m4 +2m2n3+n60,64 -4k23m2 +9m325a2+49+70a*** | ***5x2+3x9+6a2b+a4b27x2 – 0,28x******-49а² + 16b²******81а²-18аb+b²*** |