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| **Таблица 1 Представьте трехчлен в виде квадрата суммы или квадрата разности двучлена** | | | | |
|  | **А** | **Б** | **В** | **Г** |
| **1** | ***x2 + 2xy + y2 4x2 +4x +1 36 – 12a + a2 1 – 2a +a2 25а²+10а+1*** | ***a2-2ab + b2 c2+10c +25 p2 +36 -12p 9 +a2 – 6a***  ***81а²-18аb+b²*** | ***m2 – 16m + 64 81 + m2 + 18m*** ***25 + x2 -10x***  ***9а²-6аb+ b²***  ***m2+n2– 2mn*** | ***4 – 4x +x2 64 +16b +b2 x2 – 14x +49 a2+81 – 18a***  ***2cd +c2 +d2*** |
| **2** | ***4x2 +12x + 9 1 + y2 – 2y 28xy +49x2 + 4y2 m4 + 2m2n3 + n6 1 – 6c2 + 9c4*** | ***25b2 + 10b+ 1 8ab + b2 + 16a2 25a2 +49 + 70a 49a2 + 28ab2 + 4b4 a6 – 6a3 b2 + 9b4*** | ***9x2 – 24xy + 16y2 100x2 + y2 + 20xy 25x2 -20x +4 16– 8ab + a2 b2 x4 + 2x2y +y2*** | ***81a2 -18ab +b2 b2 +4a2 – 4ab 4x4 -12x2 +9 9 + 6a2b + a4b2 4y2-20yz +25z2*** |
| **3** | ***100x²+y²+20xy***  ***-28a + 4a2 +49 4x4 – 12x2y2+9y4 4a4– 12a2 +9*** | ***-36m2 + 60m – 25 16p2 + 8pk3 +k6 81x6 +72x3y2 + 16y4 16x10 + 4x5 + 0,25*** | ***28xy+49x²+4y²***  ***20a2b – 25b2 – 4a4 4x4 – 12x2y2 + 9y4 x4 +10x2 +25*** | ***24x2y2 – 9x4 – 16y4 m4 – 20m2n +100n2 0,09 – 3b3 +25b6 0,49c4 + 1,4c2 +1*** |

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| ***Таблица 2* Разложить на множители *(представьте в виде произведения двучленов).*** | | | | |
| ***1*** | ***a2 – 9 4 – y2  9x2 – 4 9a2 – 16m2*** | ***4 – y2 b2 – c2 4a2 – 25 25x2 – y2*** | ***25 – x2 x2 – a2 16 – 49y2 4x2 – 1*** | ***p2 – 49 m2 – 0,25 25x2 – y2 1 – 36a2*** |
| ***2*** | ***b2 + 1 9 – b4 48m2 – n2 36m6 – 49k4n2*** | ***x2y2 – 4 y4 –x2 25x2 – 49y2 100 + 25n2*** | ***0,09x2 – y2 y6 – 9 25 + x2 0,01m2 – 25n8*** | ***0,16 – 4b2 x10 – 25 0,64 – 49k8 36a4 – b6*** |
| ***3*** | ***x6 – 1,44 y12 – 16 4x2y4 – 9***  ***9a2b2 – 64x4*** | ***1,21p2 – a6 x2 – 1***  ***0,25a2 – 1***  ***100x4 – 9y10*** | ***a2 – 0,01***  ***0,04a6 – 0,25b4 0,09x6 – 0,49y2***  ***y² - 0,09*** | ***x10 – y8 0,04x4 – 0,25y2 1,69y14 – 1,21 121m8n8 – 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) 2 a(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 -16 5y-10xy 49a2+9b2+42ab 4x2-12xy+9y2***  ***125 - а³*** | ***a2 +2ab+1 m3-n3 25 – a2 y2 +10y+25 -4,5ay-9by*** | ***4 -4x+x2 10x-25y -16y2-12y k2– 6,25 b3 – 125*** | ***7n – 14 900 –p2 100m2 -100m+25 64 – x3 m9 –n3*** |
| ***2*** | ***a9 – b3 0,25a2 – 1 1 -12p+36p2 5b3 – 15ab a2 – 10b +25b2*** | ***16x2+81y2-72xy x3 – 1 4x2 -9 x2y +xy2 1,21b2+4,4bc+4c2*** | ***6x2 +3,6x 40c+16+25c2 c3 – c4+2c5 1 + b³ 2,4ab+0,16a2+9b2*** | ***x3 – x 1 +c3 -5x5 -15x3 9m2 – 6m+1***  ***a2 – 0,04*** |
| ***3*** | ***8 +a3 a2 – 6ab+9b2 9z2 -25 p2 +36 -12p y6 +2y3 +1*** | ***144y2-16k2 9a2+24ab+16b2 m3 +27 ax2 +3ax 81+m2+18m*** | ***p3 +k9 1 -6c2+9c4 18ab3-9b4 0,36m2-25n2***  ***p²- а²b²*** | ***58x -29y 36a2 – 49 x2 – 9y2 8ab – 6ac 16-8ab+a2b2*** |
| ***4*** | ***2a5 -4a3 4x4-12x2+9 49x2 – 121a2 25x2-10xy+y2 x3– 1000*** | ***100a2 – 25b2 4-20c+25c2 a3 – 8b3 27m3+1 m2 -16m+64*** | ***c3 +64 m4 +2m2n3+n6 0,64 -4k2 3m2 +9m3 25a2+49+70a*** | ***5x2+3x 9+6a2b+a4b2 7x2 – 0,28x***  ***-49а² + 16b²***  ***81а²-18аb+b²*** |