RAZLIKA KVADRATOV

$a^2 - b^2 = (a+b)(a-b)$

1. $m^2 - n^2 = (m+n)(m-n)$

2. $p^2 - s^2 = (p+s)(p-s)$

3. $a^2 - 4 = a^2 - 2^2 = (a+2)(a-2)$

4. $b^2 - 9 = b^2 - 3^2 = (b+3)(b-3)$

5. $t^2 - 16 = t^2 - 4^2 = (t+4)(t-4)$



6. $25 - x^2 = 5^2 - x^2 = (5+x)(5-x)$

7. $1 - y^2 = 1^2 - y^2 = (1+y)(1-y)$

8. $x^2 - 36 = x^2 - 6^2 = (x+6)(x-6)$

9. $-100 + x^2 = x^2 - 100 = x^2 - 10^2 = (x+10)(x-10)$
OBRNEŠ

10. $-d^2 + 169 = 169 - d^2 = 13^2 - d^2 = (13+d)(13-d)$

11. $-b^2 + n^2 = n^2 - b^2 = (n+b)(n-b)$

12. $64 - a^2 = 8^2 - a^2 = (8+a)(8-a)$

13. $t^2 - 625 = t^2 - 25^2 = (t+25)(t-25)$

14. $9a^2-4 = (3a)^2-2^2 = \underline{\underline{(3a+2)(3a-2)}}$

$a^2-b^2=(a+b)(a-b)$

15. $a^2-16b^2 = a^2-(4b)^2 = \underline{\underline{(a+4b)(a-4b)}}$

16. $x^2y^2-25 = (xy)^2-5^2 = \underline{\underline{(xy+5)(xy-5)}}$

17. $81-a^2b^2 = 9^2-(ab)^2 = \underline{\underline{(9+ab)(9-ab)}}$



18. $x^2y^2-p^2t^2 = (xy)^2-(pt)^2 = \underline{\underline{(xy+pt)(xy-pt)}}$

19. $121t^2-196u^2 = (11t)^2-(14u)^2 = \underline{\underline{(11t+14u)(11t-14u)}}$

20. $\frac{1}{4}x^2-\frac{1}{9}y^2 = (\frac{1}{2}x)^2-(\frac{1}{3}y)^2 = \underline{\underline{(\frac{1}{2}x+\frac{1}{3}y)(\frac{1}{2}x-\frac{1}{3}y)}}$

21. $2\frac{1}{4}a^2-1\frac{7}{9}b^2 = \frac{9}{4}a^2-\frac{16}{9}b^2 = (\frac{3}{2}a)^2-(\frac{4}{3}b)^2 = \underline{\underline{(\frac{3}{2}a+\frac{4}{3}b)(\frac{3}{2}a-\frac{4}{3}b)}}$

cele spremeniš v ulomek

22. $a^4b^4-4 = (a^2b^2)^2-2^2 = \underline{\underline{(a^2b^2+2)(a^2b^2-2)}}$

23. $x^2-y^4 = x^2-(y^2)^2 = \underline{\underline{(x^2+y^2)(x^2-y^2)}}$

24. $9a^2-16b^4 = (3a)^2-(4b^2)^2 = \underline{\underline{(3a+4b^2)(3a-4b^2)}}$

25. $x^4-81 = (x^2)^2-9^2 = (x^2+9)(x^2-9) = \underline{\underline{(x^2+9)(x+3)(x-3)}}$

lahko dalje razstaviš x^2-3^2

26. $a^4-1 = (a^2)^2-1^2 = (a^2+1)(a^2-1) = \underline{\underline{(a^2+1)(a+1)(a-1)}}$

a^2-1^2

27. $16-625x^{12} = 4^2-(25x^6)^2 = (4+25x^6)(4-25x^6) =$

$2^2-(5x^3)^2$

$= \underline{\underline{(4+25x^6)(2+5x^3)(2-5x^3)}}$



28. $(x+2y)^2-49 = (x+2y)^2-7^2 = \underline{\underline{(x+2y+7)(x+2y-7)}}$

29. $16(x+y)^2-25(x-y)^2 = (4(x+y))^2-(5(x-y))^2 = (4x+4y)^2-(5x-5y)^2 =$

$= (4x+4y+5x-5y)(4x+4y-(5x-5y)) = (9x-y)(4x+4y-5x+5y) =$

$= \underline{\underline{(9x-y)(9y-x)}}$

30. $a^{2m}-4 = (a^m)^2-2^2 = \underline{\underline{(a^m+2)(a^m-2)}}$

31. $a^{4x}-b^{8y} = (a^{2x})^2-(b^{4x})^2 = (a^{2x}+b^{4x})(a^{2x}-b^{4x}) =$

$(a^x)^2-(b^{2x})^2$

$= \underline{\underline{(a^{2x}+b^{4x})(a^x+b^{2x})(a^x-b^{2x})}}$

32. $a^{4m-4}-16b^{12} = (a^{2m-2})^2-(4b^6)^2 = (a^{2m-2}+4b^6)(a^{2m-2}-4b^6) =$

$(a^{m-1})^2-(2b^3)^2$

$= \underline{\underline{(a^{2m-2}+4b^6)(a^{m-1}+2b^3)(a^{m-1}-2b^3)}}$