

Rozklad na součin užitím vzorců

1. $x^2+4x+4=(x+\square)(x+\square)$

2. $9-12x+4x^2=(3-\square)(3-\square)$

3. $25y^2-4=(\square-\square)(\square+\square)$

4. $x^2-(2x-1)^2=(\square-1)(\square+1)$

5. $x^2+6x+9=$

6. $x^2-4xy+4y^2=$

7. $m^4n^2-8m^2np+16p^2=$

8. $0,01p^6-0,2p^3m^2n+m^4n^2=$

9. $25^2-1=$

10. $169x^2-81y^2=$

11. $0,09m^2-4n^2=$

12. $64x^2-(7x+6y)^2=$

13. $(3x+4y)^2-(5x-9y)^2=$

Rozklad na součin užitím vzorců - řešení

- $x^2+4x+4=(x+\square)(x+\square)=(x+2)(x+2)=(x+2)^2$
- $9-12x+4x^2=(3-\square)(3-\square)=(3-2x)(3-2x)=(3-2x)^2$
- $25y^2-4=(\square-\square)(\square+\square)=(5y-2)(5y+2)$
- $x^2-(2x-1)^2=(\square-1)(\square+1)=[x-(2x-1)][x+(2x-1)]=(x-2x+1)(x+2x-1)=(-x+1)(3x-1)$
- $x^2+6x+9=(x+3)^2$
- $x^2-4xy+4y^2=(x-2y)^2$
- $m^4n^2-8m^2np+16p^2=(m^2n-4p)^2$
- $0,01p^6-0,2p^3m^2n+m^4n^2=(0,1p^3-m^2n)^2$
- $25x^2-1=(5x-1)(5x+1)$
- $169x^2-81y^2=(13x-9y)(13x+9y)$
- $0,09m^2-4n^2=(0,3m-2n)(0,3m+2n)$
- $64x^2-(7x+6y)^2=[8x-(7x+6y)][8x+(7x+6y)]=(8x-7x-6y)(8x+7x+6y)=(x-6y)(15x+6y)$
- $(3x+4y)^2-(5x-9y)^2=[(3x+4y)-(5x-9y)][(3x+4y)+(5x-9y)]=
(3x+4y-5x+9y)(3x+4y+5x-9y)=(-2x+13y)(8x-5y)$

