## POTENCE

1.)(ab)2=a2b2

2.)

an am=an+m

(an)m=anm

x2+(a+b)x+ab=(x+a)(x+b)

Prpr:

x2+5x+6=(x+2)(x+3)

x2+10x+24=(x+6)(x+4)

4x2+4x+1=(2x+1)2

1.)64a2-1=(8a+1)(8a-1)

2.)64a2+1=se ne da

3.)64a3-1=(4a)3-13=

=(4a-1)((4a)2+4a+12)=

=(4a-1)(16a2+4a+12)

4.)64a4+1=(8a2+1)2-16a2=(8a2+1-4a) (8a2+1+4a)

5.)64a6-1=(8a3)2-12=

=(8a3-1)(8a3+1)=

=((2a)3-13)((2a)3+13)=

=(2a-1)(4a2+2a+1)×

×(2a+1)(4a2-a+1)

an-bn=(a-b)(an-1+an-2b+an-3 b2+an-4b3+…+abn-2+bn-1)

n

Prpr:a5-b5=(a-b)(a4+a3b+a2b2+ab3+b4)

an+bn=(a+b)(an-1-an-2b+an-3 b2-an-4b3+…-abn-2+bn-1)

nL

Prpr:x5+32y10=x5+(2y2)5=(x+2y2)(x4- -x3(2y2)1+x2(2y2)2-x(2y2)3+(2y2)4)= =(x+2y2)(x4-2x3y2+4x2y4-8xy6+16y8)

2x5-10x3-72x=2x(x4-5x2-36)=2x(x2-9) (x2+4)=2x(x-3)(x+3)(x2+4)

4n=(22)n=22n=(2n)2

Prpr: 4n-2n-30=(2n-6)(2n+5)