Ontbind zo ver mogelijk in factoren.

$x^2 - y^2 =$ $\boxed{(x+y)(x-y)}$

$16a^2 - 25b^2 =$ $\boxed{(4a+5b)(4a-5b)}$

$\frac{1}{4}a^4b^2 - \frac{81}{121}c^{14}d^{10} =$ $\boxed{(\frac{1}{2}a^2b + \frac{9}{11}c^7d^5)(\frac{1}{2}a^2b - \frac{9}{11}c^7d^5)}$

$p^{16} - q^{16} =$

$$\begin{aligned}&(p^8+q^8)(p^8-q^8)\\&=(p^8+q^8)(p^4+q^4)(p^4-q^4)\\&=(p^8+q^8)(p^4+q^4)(p^2+q^2)(p^2-q^2)\\&=(p^8+q^8)(p^4+q^4)(p^2+q^2)(p+q)(p-q)\end{aligned}$$

$0,49x^2 - 0,25y^2 =$ $\boxed{(0,7x+0,5y)(0,7x-0,5y)}$

$18x^4 - 32y^4 =$

$$\begin{aligned}&2(9x^4-16y^4)\\&=2(3x^2+4y^2)(3x^2-4y^2)\\&=2(3x^2+4y^2)(\sqrt{3}x+2y)(\sqrt{3}x-2y)\end{aligned}$$

$a^{2p+2} - b^{4q-2} =$ $\boxed{(a^{p+1}+b^{2q-1})(a^{p+1}-b^{2q-1})}$

$(2a+b)^2 - (4a-b)^2 =$

$$\begin{aligned}&[(2a+b)+(4a-b)][(2a+b)-(4a-b)]\\&=(2a+b+4a-b)(2a+b-4a+b)\\&=6a(-2a+2b)\end{aligned}$$

$(3x-1)^2 - 9 =$

$$\begin{aligned}&(3x-1+3)(3x-1-3)\\&=(3x+2)(3x-4)\end{aligned}$$