1. Bez Potenzen Lösungen AB 4

1. $x \cdot x \cdot x + 2x \cdot x + 4x = \underline{\underline{x^3 + 2x^2 + 4x}}$
2. $3x^4 : x^2 = \underline{\underline{3x^2}}$
3. $4x^2 + 3x + 5x^2 + 8x = \underline{\underline{9x^2 + 11x}}$
4. $x \cdot x \cdot x^2 \cdot x^8 = \underline{\underline{x^{12}}}$
5. $100 \cdot (0{,}8x)^3 = \underline{\underline{51{,}2x^3}}$
6. $x^8 - 3x^4 \cdot x^2 \cdot x \cdot x + x^2 \cdot x^{10} = \underline{\underline{x^{12} - 2x^8}}$
7. $3x^4 : x^4 + 5x^4 \cdot x^4 = \underline{\underline{3 + 5x^8}}$
8. $6x^5 - 3x^2 \cdot 2x^3 = \underline{\underline{0}}$
9. $x^6 \cdot x^4 + 3x^2 \cdot x^3 + 8x^2 \cdot x^8 = \underline{\underline{9x^{10} + 3x^5}}$
10. $3 \cdot x \cdot x - 6x^2 + 5x^6 : x^4 = \underline{\underline{2x^2}}$
11. $a^0 \cdot a^5 \cdot a^2 + 4a^{10} : a^3 + 3a^8 = \underline{\underline{5a^7 + 3a^8}}$
12. $(a^2)^4 + 3a^5 \cdot a^3 \cdot a^0 - 2a^5 \cdot a^5 = \underline{\underline{4a^8 - 2a^{10}}}$
13. $5b \cdot b + b^4 : b^0 + 6b^{10} : b^8 = \underline{\underline{11b^2 + b^4}}$
14. $4d + 8d^0 \cdot d^0 + (4d)^3 - 20d^4 : d^3 = \underline{\underline{64d^3 - 16d + 8}}$
15. $3k^3 \cdot k - 20k^6 : k^2 + (8k^2)^2 = \underline{\underline{47k^4}}$
16. $4m^2 + 2(3m^4 : m^2)^4 + 15m^3 : m^0 = \underline{\underline{4m^2 + 162m^8 + 15m^3}}$
17. $(2x^4)^2 + 3y^4 + 8x^8 - 12(y^2)^2 = \underline{\underline{12x^8 - 9y^4}}$
18. $5n^2 \cdot n^6 - 5 \cdot n^2 \cdot 8n^8 + (2n^2)^4 = \underline{\underline{21n^8 - 40n^{10}}}$
19. $3x^4 \cdot x^0 + 4y^4 \cdot y^0 - (5x^0)^3 = \underline{\underline{3x^4 + 4y^4 - 125}}$
20. $81x^{12} : 27x^8 + 100(0{,}4x)^4 = \underline{\underline{5{,}56x^4}}$