Espressioni con i numeri naturali e le proprietà delle potenze (con le parentesi tonde, quadre e graffe)

1. $\{[(4^3:4^1)^2]^3:4^{10}\}:4 =$ **[4]**
2. $\{[(24-2^4)^1:4]\cdot 2^3\}:1 =$ **[16]**
3. $\{[(5^1+4^1):9^1-1]+2\} =$ **[2]**
4. $15:\{[(25-19)^2-30]-1\}^1 =$ **[3]**
5. $5^2\cdot\{[(4^3:2^3):4-2^0]-1\}+1 =$ **[1]**
6. $\{[(2^1)^2]^3\}^4:\{[(2^4:2^2)^3\cdot(2^2)^2]^2\} =$ **[16]**
7. $0^1+\{[(5^2-8):(2^3+3^2)^1]^{11}:1^{10}\} =$ **[1]**
8. $(5^6:5^5)^2:\{[(10^2:2^2-20)-5^1]:11\} =$ **[imp.]**
9. $[55^2:11^2-(5^1)^2]:\{[(2^2:2^2)^2]^2-1\} =$ **[ind.]**
10. $\{[(21-5^1\cdot 4^1)^6:1^5]+5^0\}+(8^6:8^4)^0 =$ **[3]**
11. $\{[56-(7^4:7^2):7+6^1]:11\}+(4^2\cdot 2^2) =$ **[69]**
12. $21^2:\{[(44-10)^2:17^2]\cdot 2^3-[(5^5:5^2):5]\}^2 =$ **[9]**
13. $3\cdot\{20:[(40^5:20^5)^5:(2^5)^5+15^{20}:5^{20}:3^{18}]\} =$ **[6]**
14. $[(45-30)^2:5^2]:3-\{[(15^8:15^7)^2:15^2+2^3]:3\} =$ **[0]**
15. $\{10^2-[(40^4:20^4-14)^2:2]\cdot 15^1\}:5^1+1^{20}-0^{15} =$ **[15]**
16. $\{[(8^3\cdot 3^3)^2:12^6-(2^5)^3:2^{10}]:[(3^{18}:3^{15})+5^1]\}:1^3 =$ **[1]**
17. $[(24^4:8^4)^5:3^{18}-2^3]+\{[(14^{10}:7^{10})^3:2^{28}]+2\cdot 3^1\} =$ **[11]**
18. $[(15^2:5^2-9^1)^2]:20^5+\{[(3+4^2:2^2)^1-5^1]+1^{100}\} =$ **[3]**
19. $13^4:13^3-\{[(2^2\cdot 3^2-30)^3:6^2+(22-20)^2]^2:10^1\} =$ **[3]**
20. $(4^3:2^3)^2-\{[9^0+9^1+9^2+9]^2:25^2+6^0+(4^2:2^2)^2\} =$ **[31]**
21. $\{[(8^9)^6:(8^4)^{12}:4^6-(25-5^1)^2:(10^2)^1]:30^1\}-1^1\cdot 1^3 =$ **[1]**
22. $[90:(15\cdot 2^2+30)^1-(1^2)^3]^2:\{5^{12}:5^{10}-(5^5)^3:5^{13}\cdot 5^0\} =$ **[ind.]**
23. $\{[25-(4^{20}\cdot 4^{12}):4^{30}]:3^1\}+\{[(5^6)^6:5^{35}]-(45^5:15^5)^0\} =$ **[7]**
24. $(82-42^4:14^4)^2:\{[(22^5:11^5)^2+6^2:6^2-10^3]^1-5^3:5^1\} =$ **[imp.]**
25. $\{[(5^6:5^4)^5:5^9]^2+[(3^8:3^6)^6:(3^2)^5]\}:17+\{[(2^3\cdot 1^3)^0]^1\}^2 =$ **[3]**
26. $14^{13}:2^{13}:7^{11}+\{[(16-44^4:22^4)^2+(15^4)^2:(20-5)^8]^3\}^3 =$ **[50]**
27. $[(8^4)^5:(4^{10})^2]^2:(2^1-5^{25}\cdot 0^{25})^{38}+\{[(2^{22})^2:(2^{20})^2]^2:2^7\}^2 =$ **[8]**
28. $\{[16^4:8^4+(2^0+2^1+2^2)]:23^1\}-[(140^3:20^3:7^1)^2]^3:(7^2)^2:7^8 =$ **[0]**
29. $\{0^2:10^2+[(13^4:13)^5:13^{14}]^2-(1^6)^4\cdot(2^8)^3:2^{18}\}:5^1-7^{135}:7^{134} =$ **[14]**
30. $[(52^6:13^6)^5:(2^{15})^2:2^{28}]\cdot 2^3-\{[(25^6:5^6)^5:5^{28}+33^3:11^3]:(5^1-5^0)\} =$ **[19]**