

Proprietà delle potenze con lo stesso esponente

Risolvi prodotti e quozienti tra potenze applicando la proprietà delle potenze con lo stesso esponente.

1. $50^2 : 10^2$ $8^3 : 2^3$ $20^6 : 5^6 : 2^6$ [$5^2 = 25, 4^3 = 64, 2^6 = 64$]

2. $4^4 \cdot 3^4 : 6^4$ $4^5 : 2^5 \cdot 5^5$ $36^3 : 9^3$ [$2^4 = 16, 10^5 = 100\,000, 4^3 = 64$]

3. $9^3 \cdot 4^3 : 6^3$ $100^2 : 10^2$ $38^2 : 19^2$ [$6^3 = 216, 10^2 = 100, 2^2 = 4$]

4. $24^3 : 6^3$ $30^2 : 5^2$ $48^3 : 16^3$ [$4^3 = 64, 6^2 = 36, 3^3 = 27$]

5. $8^3 \cdot 2^3$ $22^4 : 11^4 \cdot 3^4$ $36^2 : 6^2 : 2^2$ [$16^3 = 4096, 6^4 = 1296, 3^2 = 9$]

6. $2^4 \cdot 4^4 : 4^4$ $100^2 : 50^2 \cdot 4^2$ $3^3 \cdot 4^3 : 6^3$ [$2^4 = 16, 8^2 = 64, 2^3 = 8$]

7. $49^2 : 7^2 \cdot 2^2$ $12^5 \cdot 2^5 : 8^5$ $81^3 : 27^3$ [$14^2 = 196, 3^5 = 243, 3^3 = 27$]

8. $5^3 \cdot 2^3 \cdot 10^3$ $2^6 \cdot 5^6 : 10^4$ $32^2 : 8^2 \cdot 1^2$ [$100^3, 10^2 = 100, 4^2 = 16$]

9. $64^2 : 32^2 \cdot 3^2$ $256^5 : 32^5 : 4^5$ $16^3 \cdot 3^3 : 6^3$ [$6^2 = 36, 2^5 = 32, 8^3 = 512$]

10. $24^5 : 3^5 : 2^5$ $45^2 : 5^2 : 3^2$ $3^3 \cdot 8^3 : 6^3$ [$4^5 = 1024, 3^2 = 9, 4^3 = 64$]

11. $144^2 : 12^2 \cdot 2^2 : 8^2$ $63^3 : 7^3$ $21^2 \cdot 2^2 : 6^2$ [$3^2 = 9, 9^3 = 729, 7^2 = 49$]

12. $88^3 : 11^3 : 4^3$ $30^5 \cdot 3^5 : 9^5$ $36^7 : 9^7 \cdot 3^7 : 6^7$ [$2^3 = 8, 10^5, 2^7 = 128$]

13. $2^3 \cdot 14^3 : 4^3$ $7^4 \cdot 3^4 \cdot 2^4 : 21^4$ $46^2 \cdot 2^2 : 4^2$ [$7^3 = 343, 2^4 = 16, 23^2 = 529$]

14. $54^3 : 9^3 : 3^3 \cdot 4^3$ $2^8 \cdot 2^8 \cdot 10^8 : 20^8$ $8^2 \cdot 6^2 : 2^2$ [$8^3 = 512, 2^8 = 256, 24^2 = 576$]

15. $125^2 : 5^2$ $72^2 : 4^2$ $4^5 \cdot 6^5 : 12^5$ [$25^2 = 625, 18^2 = 324, 2^5 = 32$]