

Elevamento a potenza cap. 4 – Potenze di dieci

soluzioni

Esercizio 1 Riscrivi sul tuo quaderno la tabella delle potenze di 10 da 10^0 a 10^9 completando la seconda colonna

$10^0=$	1	$10^5=$	100 000
$10^1=$	10	$10^6=$	1 000 000
$10^2=$	100	$10^7=$	10 000 000
$10^3=$	1 000	$10^8=$	100 000 000
$10^4=$	10 000	$10^9=$	1 000 000 000

Esercizio 2 Scrivi in forma polinomiale i seguenti numeri

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| <p>a) $198 = 1 \cdot 10^2 + 9 \cdot 10^1 + 8 \cdot 10^0$</p> <p>b) $200 = 2 \cdot 10^2 + 0 \cdot 10^1 + 0 \cdot 10^0$</p> <p>c) $3333 = 3 \cdot 10^3 + 3 \cdot 10^2 + 3 \cdot 10^1 + 3 \cdot 10^0$</p> <p>g) $77000000 = 7 \cdot 10^7 + 7 \cdot 10^6 + 0 \cdot 10^5 + 0 \cdot 10^4 + 0 \cdot 10^3 + 0 \cdot 10^2 + 0 \cdot 10^1 + 0 \cdot 10^0$</p> <p>h) $2354900000 = 2 \cdot 10^9 + 3 \cdot 10^8 + 5 \cdot 10^7 + 4 \cdot 10^6 + 9 \cdot 10^5 + 0 \cdot 10^4 + 0 \cdot 10^3 + 0 \cdot 10^2 + 0 \cdot 10^1 + 0 \cdot 10^0$</p> <p>i) $999 = 9 \cdot 10^2 + 9 \cdot 10^1 + 9 \cdot 10^0$</p> | <p>d) $40105 = 4 \cdot 10^4 + 0 \cdot 10^3 + 1 \cdot 10^2 + 0 \cdot 10^1 + 5 \cdot 10^0$</p> <p>e) $123321 = 1 \cdot 10^5 + 2 \cdot 10^4 + 3 \cdot 10^3 + 3 \cdot 10^2 + 2 \cdot 10^1 + 1 \cdot 10^0$</p> <p>f) $2323232 = 2 \cdot 10^6 + 3 \cdot 10^5 + 2 \cdot 10^4 + 3 \cdot 10^3 + 2 \cdot 10^2 + 3 \cdot 10^1 + 2 \cdot 10^0$</p> <p>j) $1000 = 1 \cdot 10^3 + 0 \cdot 10^2 + 0 \cdot 10^1 + 0 \cdot 10^0$</p> |
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Esercizio 3 Scrivi in forma polinomiale i seguenti numeri tralasciando i termini uguali a zero

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| <p>a) $190 = 1 \cdot 10^2 + 9 \cdot 10^1$</p> <p>b) $200 = 2 \cdot 10^2$</p> <p>c) $3\ 030 = 3 \cdot 10^3 + 3 \cdot 10^1$</p> | <p>d) $40\ 105 = 4 \cdot 10^4 + 1 \cdot 10^2 + 5 \cdot 10^0$</p> <p>e) $77\ 000\ 000 = 7 \cdot 10^7 + 7 \cdot 10^6$</p> <p>f) $2\ 354\ 900\ 000 = 2 \cdot 10^9 + 3 \cdot 10^8 + 5 \cdot 10^7 + 4 \cdot 10^6 + 9 \cdot 10^5$</p> | <p>g) $404 = 4 \cdot 10^2 + 4 \cdot 10^0$</p> <p>h) $4004 = 4 \cdot 10^3 + 4 \cdot 10^0$</p> |
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Esercizio 4 Scrivi i numeri a cui corrispondono le seguenti scritture polinomiali

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| <p>a) $9 \cdot 10^3 + 0 \cdot 10^2 + 7 \cdot 10^1 + 1 \cdot 10^0 = 9071$</p> <p>b) $9 \cdot 10^4 + 0 \cdot 10^3 + 0 \cdot 10^2 + 7 \cdot 10^1 + 1 \cdot 10^0 = 90071$</p> <p>c) $9 \cdot 10^4 + 7 \cdot 10^1 + 1 \cdot 10^0 = 90071$</p> <p>d) $9 \cdot 10^5 + 7 \cdot 10^1 + 1 \cdot 10^0 = 900071$</p> | <p>e) $9 \cdot 10^5 + 7 \cdot 10^1 = 900070$</p> <p>f) $9 \cdot 10^5 = 900000$</p> <p>g) $7 \cdot 10^6 = 7000000$</p> <p>h) $6 \cdot 10^7 = 60000000$</p> | <p>i) $3 \cdot 10^1 + 8 \cdot 10^0 = 38$</p> <p>j) $0 \cdot 10^1 + 8 \cdot 10^0 = 8$</p> <p>k) $0 \cdot 10^1 + 9 \cdot 10^0 = 9$</p> <p>l) $1 \cdot 10^1 + 0 \cdot 10^0 = 10$</p> |
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