



Potenzen: Potenzgesetze

Zusammen-
fassen



Zerlegen



$k^3 \cdot k^5 \cdot m^4 \cdot m^2$ $z^{2+m} \cdot z^{n-1}$ $= z^{1+m+n}$		k^{2n+3} $z^{3k+4n+m}$ $= z^{3k} \cdot z^{4n} \cdot z^m$	$+$
$\frac{x^4 - x^6}{x^2}$		$\frac{x^n}{x^{n-3}}$	$+$
$k^7 \cdot k^2 \cdot m^3 \cdot m^6$ $= k^9 \cdot m^9 = (k \cdot m)^9$		$k^{3+4n} = k^3 \cdot k^{4n}$	$+$
$z^{n-3} \cdot z^{m+5}$		$z^{k+3n+2m}$	$+$
$\frac{x^6 - x^9}{x^3} = x^3 - x^6$		$\frac{x^3}{x^{3-n}} = x^n$	$+$
$(-m)^3 \cdot (-n)^3$		$((-m) \cdot n)^4$	$+$
$q^3 \cdot p^{m+5} \cdot q^{m+2}$ $= (p \cdot q)^{m+5}$		$\frac{(p \cdot q)^m}{p} = p^{m-1} \cdot q^m$	$+$
$k^n \cdot m^n$		$(k \cdot m)^4$	$+$
$(-m)^5 \cdot n^5$ $= (-m \cdot n)^5$		$\frac{(m \cdot (-n))^2}{m^2} = (-n)^2$	$+$
$p^2 \cdot p^{m+2} \cdot q^{m+4}$		$\frac{(p \cdot q)^{m+1}}{p}$	$+$
$(k^3 \cdot h^{n+3})^4 = (k \cdot h)^{12} \cdot h^{4n}$		$k^{n \cdot (m-3)} = (k^n)^m \div (k^n)^3$	$+$
$(k^2 \cdot h^2)^3$		$k^{2 \cdot (n+1)}$	$+$
$(m^6)^5 = m^{30}$		$m^{7n} = (m^n)^7 (m^7)^n$	$+$
$(k^{2+n} \cdot h^2)^2$		$k^{5 \cdot (m-n)}$	$+$
$k^7 \cdot m^7$ $= (k \cdot m)^7$		$(k \cdot m)^n$ $= k^n \cdot m^n$	$+$
$(m^3)^2$		m^{4n}	$+$
$(k^3 \cdot h^3)^4 = (k \cdot h)^{12}$		$k^{3(n+2)} = (k^3)^n \cdot k^6$	$+$
$\frac{x^n}{x^{m+1}}$		x^{m+n-2}	$+$
$\left(\frac{n^2}{m^3}\right)^4 = \frac{n^8}{m^{12}}$		$\frac{n^5 p}{m^q \cdot p} = \left(\frac{n^5}{m^q}\right)^p$	$+$
$\left(\frac{x^4}{x-2}\right)^3$		$x^{2(n-m)}$	$+$
$\left(\frac{x^m}{x-2n}\right)^4 = x^{4m+8n}$		$x^{n(m-3)} = \left(\frac{x^m}{x^3}\right)^n$	$+$
$\left(\frac{n^3}{m^4}\right)^2$		$\frac{n^{2p}}{m^{2q}}$	$+$
$\frac{x^m}{x^{2+n}} = x^{m-n-2}$		$x^{n-m+2} = \frac{x^n \cdot x^2}{x^m}$	$+$

Potenzen: Potenzgesetze

Zerlegen



Zusammen-
fassen



$k^{2n+3} = k^{2n} \cdot k^3$		$k^3 \cdot k^5 \cdot m^4 \cdot m^2$ $= k^8 \cdot m^6$	$+$
$z^{3k+4n+m}$		$z^{2+m} \cdot z^{n-1}$	$+$
$\frac{x^n}{x^{n-3}} = x^3$		$\frac{x^4 - x^6}{x^2} = x^2 - x^4$	$+$
k^{3+4n}		$k^7 \cdot k^2 \cdot m^3 \cdot m^6$	$+$
$z^{k+3n+2m}$ $= z^k \cdot z^{3n} \cdot z^{2m}$		$z^{n-3} \cdot z^{m+5}$ $= z^{n+m+2}$	$+$
$\frac{x^3}{x^{3-n}} = x^n$		$\frac{x^6 - x^9}{x^3}$	$+$
$((-m) \cdot n)^4$ $= (-m)^4 \cdot n^4$		$(-m)^3 \cdot (-n)^3$ $= (n \cdot m)^3$	$+$
$\frac{(p \cdot q)^m}{p}$		$q^3 \cdot p^{m+5} \cdot q^{m+2}$	$+$
$(k \cdot m)^4$ $= k^4 \cdot m^4$		$k^n \cdot m^n$ $= (k \cdot m)^n$	$+$
$(m \cdot (-n))^2$		$(-m)^5 \cdot n^5$	$+$
$\frac{(p \cdot q)^{m+1}}{p} = p^m \cdot q^{m+1}$		$p^2 \cdot p^{m+2} \cdot q^{m+4}$ $= (p \cdot q)^{m+4}$	$+$
$k^{n \cdot (m-3)}$		$(k^3 \cdot h^{n+3})^4$	$+$
$k^{2(n+1)} = (k^2)^n \cdot k^2$		$(k^2 \cdot h^2)^3 = (k \cdot h)^6$	$+$
m^{7n}		$(m^6)^5$	$+$
$k^{5 \cdot (m-n)} = (k^5)^m \div (k^5)^n$		$(k^{2+n} \cdot h^2)^2 = (k \cdot h)^4 \cdot k^{2n}$	$+$
$(k \cdot m)^n$		$k^7 \cdot m^7$	$+$
$m^{4n} = (m^4)^n = (m^n)^4$		$(m^3)^2 = m^6$	$+$
$k^{3 \cdot (n+2)}$		$(k^3 \cdot h^3)^4$	$+$
$x^{m+n-2} = \frac{x^m \cdot x^n}{x^2}$		$\frac{x^n}{x^{m+1}} = x^{n-m-1}$	$+$
$\frac{n^5 p}{m^q \cdot p}$		$\left(\frac{n^2}{m^3}\right)^4$	$+$
$x^{2(n-m)} = \left(\frac{x^n}{x^m}\right)^2$		$\left(\frac{x^4}{x-2}\right)^3 = x^{18}$	$+$
$x^{n(m-3)}$		$\left(\frac{x^m}{x-2n}\right)^4$	$+$
$\frac{n^{2p}}{m^{2q}} = \left(\frac{n^p}{m^q}\right)^2$		$\left(\frac{n^3}{m^4}\right)^2 = \frac{n^6}{m^8}$	$+$
x^{n-m+2}		$\frac{x^m}{x^{2+n}}$	$+$