$a^m \cdot a^n = a^{m+n}$ $\quad\quad$ $\frac{a^m}{a^n} = a^{m-n}$

$(a^m)^n = a^{m \cdot n}$ $\quad\quad$ $(ab)^m = a^m b^m$

$(14^4)^3$	$3^7 \cdot 3^{-2}$	$\frac{4^9}{4^3}$	$(3x^2y)^3$	$\frac{7^9}{7^3}$
_____	_____	_____	_____	_____
$(2r^4s^2)^5$	$(x^5)^6$	$\frac{11^6}{11}$	$12^3 \cdot 12^4$	$(7a^6b)^2$
_____	_____	_____	_____	_____
$6^2 \cdot 6^5$	$\frac{2^{15}}{2^5}$	$(4ab^4c)^2$	$2^0 \cdot 2^{-4}$	$(7^{-2})^{-6}$
_____	_____	_____	_____	_____
$(10r^2s^5t^{-2})^4$	$(8^0)^{13}$	$x^5 \cdot x^{10}$	$\frac{5^8}{5^2}$	$(b^{10})^{10}$
_____	_____	_____	_____	_____
$\frac{3^4}{3^6}$	$8^{-4} \cdot 8^{-1}$	$(3m^2n)^4$	$\frac{8^6}{8^{-2}}$	$(2^2)^2$
_____	_____	_____	_____	_____
$(12j^3k^2l^7)^2$	$(y^{-5})^2$	$b \cdot b^{-2}$	$(x^2y)^{20}$	$\frac{6^{100}}{6^{50}}$
_____	_____	_____	_____	_____
$5^5 \cdot 5^5$	$(10^3)^2$	$w^8 \cdot w^2$	$\frac{9^3}{9^6}$	$(ab^2c)^3$
_____	_____	_____	_____	_____