



Exponents (Power of a power)

By Using the law Power of a power,
write each expression in a single exponent. $(x^m)^n = x^{mn}$

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|--|---|--|
| 1) $(4^5)^2$ _____ | 2) $(10^3)^4$ _____ | 3) $(-3^6)^3$ _____ |
| 4) $(-2^5)^{-2}$ _____ | 5) $(4.5^{-3})^3$ _____ | 6) $(4^{-3})^{-4}$ _____ |
| 7) $\left(\left(\frac{2}{3}\right)^2\right)^4$ _____ | 8) $\left(\left(\frac{5}{7}\right)^5\right)^2$ _____ | 9) $\left(\left(\frac{-1}{7}\right)^{-3}\right)^2$ _____ |
| 10) $\left(\left(\frac{11}{16}\right)^{-4}\right)^{-3}$ _____ | 11) $\left(\left(\frac{15}{19}\right)^5\right)^{-3}$ _____ | 12) $\left(\left(\frac{-5}{13}\right)^{-2}\right)^{-4}$ _____ |