

Power of a power

Write each expression as a single power.

1. $(3^5)^2 = 3^{10}$

2. $(6^4)^4 = 6^{16}$

3. $(6^{-3})^3 = 6^{-9}$

4. $(3^4)^4 = 3^{16}$

5. $(6^4)^3 = 6^{12}$

6. $(3^{-1})^4 = 3^{-4}$

7. $(6^3)^{-4} = 6^{-12}$

8. $(10^{-2})^2 = 10^{-4}$

9. $(10^3)^3 = 10^9$

10. $(5^3)^4 = 5^{12}$

11. $(5^{-1})^{-3} = 5^3$

12. $(3^4)^2 = 3^8$