

Power of a power

Write each expression as a single power.

1. $(3^{-2})^{-3} =$ _____

2. $(10^4)^3 =$ _____

3. $(10^4)^{-2} =$ _____

4. $(10^3)^3 =$ _____

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

6. $(7^{-2})^4 =$ _____

7. $(2^{-3})^2 =$ _____

8. $(2^3)^{-4} =$ _____

9. $(5^{-3})^{-4} =$ _____

10. $(5^4)^{-4} =$ _____

11. $(3^{-3})^3 =$ _____

12. $(6^{-2})^2 =$ _____