Powers of Exponents (E)

Simplify each expression.

1. $(7^4)^3$

 $(7^4)^8$

 $^{3.}$ $(4^4)^8$

4. $(4^6)^8$

 $5. (3^7)^8$

6. $(4^6)^5$

7. $(9^0)^0$

8. $(7^0)^5$

9. $(5^9)^8$

 $^{10.}$ $(3^9)^3$

Powers of Exponents (E) Answers

Simplify each expression.

1. $(7^4)^3$

 $(7^4)^8$

 $=7^{12}$

 $=7^{32}$

 $^{3.}$ $(4^4)^8$

4. $(4^6)^8$

 $=4^{32}$

 $=4^{48}$

 $5. (3^7)^8$

 $6. (4^6)^5$

 $=3^{56}$

 $=4^{30}$

7. $(9^0)^0$

8. $(7^0)^5$

 $=9^0=1$

 $=7^0=1$

9. $(5^9)^8$

 $^{10.}$ $(3^9)^3$

 $=5^{72}$

 $=3^{27}$