

Powers of Exponents (I)

Simplify each expression.

1. $(6^9)^9$

2. $(9^8)^6$

3. $(9^1)^0$

4. $(5^3)^4$

5. $(4^9)^7$

6. $(5^5)^0$

7. $(5^3)^9$

8. $(7^0)^7$

9. $(8^0)^4$

10. $(8^2)^5$

Powers of Exponents (I) Answers

Simplify each expression.

1. $(6^9)^9$

$$= 6^{81}$$

2. $(9^8)^6$

$$= 9^{48}$$

3. $(9^1)^0$

$$= 9^0 = 1$$

4. $(5^3)^4$

$$= 5^{12}$$

5. $(4^9)^7$

$$= 4^{63}$$

6. $(5^5)^0$

$$= 5^0 = 1$$

7. $(5^3)^9$

$$= 5^{27}$$

8. $(7^0)^7$

$$= 7^0 = 1$$

9. $(8^0)^4$

$$= 8^0 = 1$$

10. $(8^2)^5$

$$= 8^{10}$$