

Powers of Exponents (C)

Simplify each expression.

1. $(7^8)^6$

2. $(9^0)^7$

3. $(3^7)^0$

4. $(8^5)^7$

5. $(2^5)^4$

6. $(2^2)^9$

7. $(3^5)^3$

8. $(4^0)^1$

9. $(2^5)^1$

10. $(3^9)^2$

Powers of Exponents (C) Answers

Simplify each expression.

1. $(7^8)^6$

$$= 7^{48}$$

2. $(9^0)^7$

$$= 9^0 = 1$$

3. $(3^7)^0$

$$= 3^0 = 1$$

4. $(8^5)^7$

$$= 8^{35}$$

5. $(2^5)^4$

$$= 2^{20}$$

6. $(2^2)^9$

$$= 2^{18}$$

7. $(3^5)^3$

$$= 3^{15}$$

8. $(4^0)^1$

$$= 4^0 = 1$$

9. $(2^5)^1$

$$= 2^5$$

10. $(3^9)^2$

$$= 3^{18}$$