Exponent Rules (A)

Simplify each expression.

1. $\dfrac{7^6}{7^4}$

2. $\dfrac{4^1}{4^0}$

3. $2^6 \cdot 2^{-9}$

4. $((-4)^9)^9$

5. $\dfrac{3^2}{3^3}$

6. $(-4)^7 \cdot (-8)^7$

7. $\dfrac{(-2)^{-8}}{(-2)^{-1}}$

8. $(-8)^2 \cdot (-8)^{-5}$

9. $(-5)^{-4} \cdot 3^{-4}$

10. $(6^{-9})^1$

Exponent Rules (B)

Simplify each expression.

1. $4^9 \cdot 4^{-2}$

2. $\dfrac{6^{-6}}{6^5}$

3. $\dfrac{4^5}{4^9}$

4. $(9^2)^{-5}$

5. $\dfrac{8^8}{8^8}$

6. $\dfrac{(-8)^{-1}}{(-8)^{-5}}$

7. $(-5)^2 \cdot 7^2$

8. $2^{-2} \cdot 2^{-1}$

9. $((-5)^{-2})^{-6}$

10. $(-3)^8 \cdot 3^8$