

Dividing Exponents (B)

Simplify each expression.

1. $\frac{3^8}{3^8}$

2. $\frac{5^8}{5^9}$

3. $\frac{2^7}{2^7}$

4. $\frac{5^4}{5^7}$

5. $\frac{6^5}{6^7}$

6. $\frac{8^5}{8^6}$

7. $\frac{8^5}{8^6}$

8. $\frac{9^3}{9^5}$

9. $\frac{5^6}{5^7}$

10. $\frac{9^8}{9^9}$

Dividing Exponents (B) Answers

Simplify each expression.

1. $\frac{3^8}{3^8}$

$$= 3^0 = 1$$

2. $\frac{5^8}{5^9}$

$$= 5^{-1} = \frac{1}{5}$$

3. $\frac{2^7}{2^7}$

$$= 2^0 = 1$$

4. $\frac{5^4}{5^7}$

$$= 5^{-3} = \frac{1}{5^3}$$

5. $\frac{6^5}{6^7}$

$$= 6^{-2} = \frac{1}{6^2}$$

6. $\frac{8^5}{8^6}$

$$= 8^{-1} = \frac{1}{8}$$

7. $\frac{8^5}{8^6}$

$$= 8^{-1} = \frac{1}{8}$$

8. $\frac{9^3}{9^5}$

$$= 9^{-2} = \frac{1}{9^2}$$

9. $\frac{5^6}{5^7}$

$$= 5^{-1} = \frac{1}{5}$$

10. $\frac{9^8}{9^9}$

$$= 9^{-1} = \frac{1}{9}$$