

Dividing Exponents (D)

Simplify each expression.

1. $\frac{9^6}{9^8}$

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

3. $\frac{5^3}{5^4}$

4. $\frac{7^8}{7^8}$

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

6. $\frac{9^6}{9^8}$

7. $\frac{3^5}{3^7}$

8. $\frac{3^1}{3^6}$

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

10. $\frac{7^2}{7^6}$

Dividing Exponents (D) Answers

Simplify each expression.

1. $\frac{9^6}{9^8}$

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

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

$$= 5^0 = 1$$

3. $\frac{5^3}{5^4}$

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

4. $\frac{7^8}{7^8}$

$$= 7^0 = 1$$

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

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

6. $\frac{9^6}{9^8}$

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

7. $\frac{3^5}{3^7}$

$$= 3^{-2} = \frac{1}{3^2}$$

8. $\frac{3^1}{3^6}$

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

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

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

10. $\frac{7^2}{7^6}$

$$= 7^{-4} = \frac{1}{7^4}$$