

Dividing Exponents (E)

Simplify each expression.

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

2. $\frac{7^1}{7^6}$

3. $\frac{4^6}{4^6}$

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

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

6. $\frac{8^4}{8^6}$

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

8. $\frac{7^1}{7^6}$

9. $\frac{7^0}{7^5}$

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

Dividing Exponents (E) Answers

Simplify each expression.

$$1. \frac{8^6}{8^6}$$
$$= 8^0 = 1$$

$$2. \frac{7^1}{7^6}$$
$$= 7^{-5} = \frac{1}{7^5}$$

$$3. \frac{4^6}{4^6}$$
$$= 4^0 = 1$$

$$4. \frac{9^5}{9^7}$$
$$= 9^{-2} = \frac{1}{9^2}$$

$$5. \frac{8^2}{8^2}$$
$$= 8^0 = 1$$

$$6. \frac{8^4}{8^6}$$
$$= 8^{-2} = \frac{1}{8^2}$$

$$7. \frac{6^8}{6^9}$$
$$= 6^{-1} = \frac{1}{6}$$

$$8. \frac{7^1}{7^6}$$
$$= 7^{-5} = \frac{1}{7^5}$$

$$9. \frac{7^0}{7^5}$$
$$= 7^{-5} = \frac{1}{7^5}$$

$$10. \frac{7^5}{7^8}$$
$$= 7^{-3} = \frac{1}{7^3}$$