Dividing Exponents (I)

Simplify each expression.

1. $\dfrac{5^0}{5^4}$

2. $\dfrac{3^7}{3^8}$

3. $\dfrac{2^8}{2^8}$

4. $\dfrac{9^7}{9^8}$

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

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

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

8. $\dfrac{7^0}{7^1}$

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

10. $\dfrac{9^5}{9^7}$

Dividing Exponents (I) Answers

Simplify each expression.

1. $\dfrac{5^0}{5^4}$

$= 5^{-4} = \dfrac{1}{5^4}$

2. $\dfrac{3^7}{3^8}$

$= 3^{-1} = \dfrac{1}{3}$

3. $\dfrac{2^8}{2^8}$

$= 2^0 = 1$

4. $\dfrac{9^7}{9^8}$

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

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

$= 6^{-4} = \dfrac{1}{6^4}$

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

$= 4^0 = 1$

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

$= 5^{-9} = \dfrac{1}{5^9}$

8. $\dfrac{7^0}{7^1}$

$= 7^{-1} = \dfrac{1}{7}$

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

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

10. $\dfrac{9^5}{9^7}$

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