Educonclave

1.   Find the multiplicative inverse of 3^{-3} .

2.   Simplify and write in exponential form.

$$\left(\frac{1}{2}\right)^{-3} \times \left(\frac{1}{2}\right)^{-2}$$

3.   Simplify the following and write in exponential form.

$$\left(\frac{4}{5}\right)^{5} \times \left(\frac{5}{6}\right)^{5}$$

4.   Express 8^{-4} as a power with the base 2.

5.   Simplify the following and write in exponential form.

$$(3^{6} \div 3^{8}) \times 3^{-4}$$

6.   Find the value of *k* if $(-2)^{k+1} \times (-2)^{3} = (-2)^{7}$

7.   Write the following in standard form

0.0035

8.   Solve the following: $(81)^{-4} \div (729)^{2-x} = 9^{4x}$

9.   Find the value of x if

$$\left(\frac{125}{27}\right) \times \left(\frac{125}{27}\right)^{x} = \left(\frac{5}{3}\right)^{18}$$

C-9, Greater Kailash Enclave 2, New Delhi; Phone 9810815644, 9910393669
Email: info.educonclave@gmail.com; sangeettuli@gmail.com

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