EduSahara™ Assignment

Name : Identity - 1

Chapter : Exponents

Grade : SSC Grade VII

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1. $(-5 \times -9)^{-3} =$

(i) $(-5)^{-3} \times (-9)^{-4}$ (ii) $(-5)^{-3} \times (-6)^{-3}$ (iii) $(-5)^{-3} \times (-11)^{-3}$ (iv) $(-5)^{-3} \times (-9)^{-3}$ (v) $(-5)^{-3} \times (-9)^{-2}$

2. $(-2 \times 3 \times -5)^{-8} =$

(i) $(-2)^{-8} \times 3^{-8} \times (-5)^{-8}$ (ii) $(-2)^{-8} \times 3^{-9} \times (-5)^{-9}$ (iii) $(-2)^{-8} \times 3^{-7} \times (-5)^{-7}$ (iv) $(-2)^{-8} \times 5^{-8} \times (-3)^{-8}$

(v) $(-2)^{-8} \times 3^{-10} \times (-7)^{-8}$

3. $(6 \times -5)^{9/8} =$

(i) $6^{\left(\frac{9}{8}\right)} \times (-7)^{\left(\frac{9}{8}\right)}$ (ii) $6^{\left(\frac{9}{8}\right)} \times (-2)^{\left(\frac{9}{8}\right)}$ (iii) $6^{\left(\frac{9}{8}\right)} \times (-5)^{\left(\frac{9}{10}\right)}$ (iv) $6^{\left(\frac{9}{8}\right)} \times (-5)^{\left(\frac{9}{8}\right)}$ (v) $6^{\left(\frac{9}{8}\right)} \times (-5)^{\left(\frac{3}{2}\right)}$

4. $(5 \times 6 \times -2)^{7/3} =$

(i) $5^{\left(\frac{7}{3}\right)} \times 6^{\left(\frac{7}{3}\right)} \times (-2)^{\left(\frac{7}{3}\right)}$ (ii) $5^{\left(\frac{7}{3}\right)} \times 6^{\left(\frac{7}{5}\right)} \times (-2)^{\left(\frac{7}{5}\right)}$ (iii) $5^{\left(\frac{7}{3}\right)} \times 3^{\left(\frac{7}{3}\right)} \times (-4)^{\left(\frac{7}{3}\right)}$ (iv) $5^{\left(\frac{7}{3}\right)} \times 9^{\left(\frac{7}{3}\right)} \times (-2)^{3}$

(v) $5^{\left(\frac{7}{3}\right)} \times 6^{7} \times (-2)^{7}$

5. $\left(\frac{8}{3} \times \left(\frac{-5}{2}\right)\right)^{2} =$

(i) $\left(\frac{8}{3}\right)^{2} \times \left(\frac{-5}{2}\right)^{2}$ (ii) $\left(\frac{8}{3}\right)^{2} \times \left(\frac{-7}{2}\right)^{2}$ (iii) $\left(\frac{8}{3}\right)^{2} \times \left(\frac{-5}{2}\right)^{2}$ (iv) $\left(\frac{8}{3}\right)^{2} \times \left(\frac{-3}{2}\right)^{2}$ (v) $\left(\frac{8}{3}\right)^{2} \times \left(\frac{-5}{2}\right)^{3}$

6. $\left(\frac{-4}{1} \times \frac{7}{2} \times \left(\frac{-7}{2}\right)\right)^{7} =$

(i) $(-4)^{7} \times \left(\frac{5}{2}\right)^{7} \times \left(\frac{-9}{2}\right)^{7}$ (ii) $(-4)^{7} \times \left(\frac{7}{2}\right)^{6} \times \left(\frac{-7}{2}\right)^{6}$ (iii) $(-4)^{7} \times \left(\frac{7}{2}\right)^{7} \times \left(\frac{-7}{2}\right)^{7}$ (iv) $(-4)^{7} \times \left(\frac{7}{2}\right)^{8} \times \left(\frac{-7}{2}\right)^{8}$

(v) $(-4)^{7} \times \left(\frac{9}{2}\right)^{7} \times \left(\frac{-5}{2}\right)^{7}$

7. $\left(\left(\frac{-9}{8}\right) \times \frac{3}{2}\right)^{-9/4} =$

(i) $\left(\frac{-9}{8}\right)^{(-9/4)} \times \left(\frac{5}{2}\right)^{(-9/4)}$ (ii) $\left(\frac{-9}{8}\right)^{(-9/4)} \times \left(\frac{1}{2}\right)^{(-9/4)}$ (iii) $\left(\frac{-9}{8}\right)^{(-9/4)} \times \left(\frac{3}{2}\right)^{(-9/4)}$ (iv) $\left(\frac{-9}{8}\right)^{(-9/4)} \times \left(\frac{3}{2}\right)^{(-3/2)}$

(v) $\left(\frac{-9}{8}\right)^{(-9/4)} \times \left(\frac{3}{2}\right)^{(-9/2)}$

8. $\left(\frac{9}{8} \times \frac{7}{1} \times \left(\frac{-7}{5}\right)\right)^{9/5} =$

(i) $\left(\frac{9}{8}\right)^{(9/5)} \times_5 \left(\frac{9}{5}\right)^{(9/5)} \times \left(\frac{-9}{5}\right)$ (ii) $\left(\frac{9}{8}\right)^{(9/5)} \times_{10} \left(\frac{9}{5}\right)^{(9/5)} \times_{(-1)}$ (iii) $\left(\frac{9}{8}\right)^{(9/5)} \times_7 \left(\frac{9}{7}\right)^{(9/7)} \times \left(\frac{-7}{5}\right)$

(iv) $\left(\frac{9}{8}\right)^{(9/5)} \times_7 \left(\frac{9}{5}\right)^{(9/5)} \times \left(\frac{-7}{5}\right)$ (v) $\left(\frac{9}{8}\right)^{(9/5)} \times 7^3 \times \left(\frac{-7}{5}\right)^3$

Assignment Key

1) (iv)	2) (i)	3) (iv)	4) (i)	5) (iii)	6) (iii)
7) (iii)	8) (iv)				

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