

EduSahara™ Learning Center Assignment

Grade : Class VII, SSC

Chapter : Exponents

Name : Identity – 1

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1. $(7 \times -7)^{-6} =$

(i) $7^{-6} \times (-7)^{-6}$ (ii) $7^{-6} \times (-5)^{-6}$

(iii) $7^{-6} \times (-7)^{-7}$ (iv) $7^{-6} \times (-7)^{-5}$

(v) $7^{-6} \times (-10)^{-6}$

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

(i) $(-5)^{-7} \times (-10)^{-7} \times 4^{-7}$ (ii) $(-5)^{-7} \times (-7)^{-8} \times 6^{-8}$

(iii) $(-5)^{-7} \times (-4)^{-7} \times 8^{-7}$ (iv) $(-5)^{-7} \times (-7)^{-7} \times 6^{-7}$

(v) $(-5)^{-7} \times (-7)^{-6} \times 6^{-6}$

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

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

(iii) $(-3)^{\left(\frac{7}{4}\right)} \times (-2)^{\left(\frac{7}{4}\right)}$ (iv) $(-3)^{\left(\frac{7}{4}\right)} \times (-4)^{\left(\frac{7}{4}\right)}$

(v) $(-3)^{\left(\frac{7}{4}\right)} \times 1$

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

$$(i) \left(-6\right)^{\left(\frac{-3}{7}\right)} \times (-5)^{\left(\frac{-1}{3}\right)} \times 6^{\left(\frac{-1}{3}\right)} \quad (ii) \left(-6\right)^{\left(\frac{-3}{7}\right)} \times (-5)^{\left(\frac{-3}{5}\right)} \times 6^{\left(\frac{-3}{5}\right)}$$

$$(iii) \left(-6\right)^{\left(\frac{-3}{7}\right)} \times (-3)^{\left(\frac{-3}{7}\right)} \times 8^{\left(\frac{-3}{7}\right)} \quad (iv) \left(-6\right)^{\left(\frac{-3}{7}\right)} \times (-8)^{\left(\frac{-3}{7}\right)} \times 4^{\left(\frac{-3}{7}\right)}$$

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

$$5. \left(\left(\frac{-3}{5}\right) \times \frac{2}{1}\right)^9 =$$

$$(i) \left(\frac{-3}{5}\right)^9 \times (-1)^9 \quad (ii) \left(\frac{-3}{5}\right)^9 \times 2^9$$

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

$$(v) \left(\frac{-3}{5}\right)^9 \times 2^{10}$$

$$6. \left(\left(\frac{-9}{5}\right) \times \left(\frac{-5}{9}\right) \times \left(\frac{-5}{9}\right)\right)^{-7} =$$

$$(i) \left(\frac{-9}{5}\right)^{-7} \times \left(\frac{-5}{9}\right)^{-6} \times \left(\frac{-5}{9}\right)^{-6} \quad (ii) \left(\frac{-9}{5}\right)^{-7} \times \left(\frac{-1}{3}\right)^{-7} \times \left(\frac{-1}{3}\right)^{-7}$$

$$(iii) \left(\frac{-9}{5}\right)^{-7} \times \left(\frac{-5}{9}\right)^{-7} \times \left(\frac{-5}{9}\right)^{-7} \quad (iv) \left(\frac{-9}{5}\right)^{-7} \times \left(\frac{-5}{9}\right)^{-8} \times \left(\frac{-5}{9}\right)^{-8}$$

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

7. $\left(\frac{9}{2} \times \frac{7}{5}\right)^{-7/6} =$

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

(iii) $\left(\frac{9}{2}\right)^{(-7/6)} \times 1$ (iv) $\left(\frac{9}{2}\right)^{(-7/6)} \times \left(\frac{7}{5}\right)^{(-7/8)}$

(v) $\left(\frac{9}{2}\right)^{(-7/6)} \times \left(\frac{9}{5}\right)^{(-7/6)}$

8. $\left(\left(\frac{-9}{5}\right) \times \left(\frac{-8}{7}\right) \times \frac{8}{7}\right)^{-3/4} =$

(i) $\left(\frac{-9}{5}\right)^{(-3/4)} \times \left(\frac{-10}{7}\right)^{(-3/4)} \times \left(\frac{6}{7}\right)^{(-3/4)}$ (ii) $\left(\frac{-9}{5}\right)^{(-3/4)} \times \left(\frac{-8}{7}\right)^{(-3/2)} \times \left(\frac{8}{7}\right)^{(-3/4)}$

(iii) $\left(\frac{-9}{5}\right)^{(-3/4)} \times \left(\frac{-8}{7}\right)^{(-3/4)} \times \left(\frac{8}{7}\right)^{(-3/4)}$ (iv) $\left(\frac{-9}{5}\right)^{(-3/4)} \times \left(\frac{-6}{7}\right)^{(-3/4)} \times \left(\frac{10}{7}\right)^{(-3/4)}$

(v) $\left(\frac{-9}{5}\right)^{(-3/4)} \times \left(\frac{-8}{7}\right)^{(-1/2)} \times \left(\frac{8}{7}\right)^{(-1/2)}$

Assignment Key

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