

EduSahara™ Learning Center Assignment

Grade : Class VII, SSC

Chapter : Exponents

Name : Identity – 4

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1. $\frac{(-6)^{-5}}{(-6)^3} =$

(i) $(-9)^{-8}$ (ii) $(-6)^{-7}$ (iii) $(-6)^{-8}$ (iv) $(-6)^{-9}$ (v) $(-4)^{-8}$

2. $\frac{(-6)^{-3}}{(-6)^{-5}} =$

(i) $(-3)^2$ (ii) $\frac{-6}{1}$ (iii) $(-6)^2$ (iv) $(-9)^2$ (v) $(-6)^3$

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

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

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

$$(i) \left(\frac{10}{7}\right)^{(-1/6)} \quad (ii) \left(\frac{8}{7}\right)^{(-1/6)} \quad (iii) \left(\frac{8}{7}\right)^{(-1/4)} \quad (iv) \left(\frac{8}{7}\right)^{(-1/8)} \quad (v) \left(\frac{6}{7}\right)^{(-1/6)}$$

$$5. \frac{(-9)^{-7}}{(-9)^{-5}} =$$

$$(i) (-9)^{-2} \quad (ii) (-6)^{-2} \quad (iii) (-9)^{-1} \quad (iv) (-12)^{-2} \quad (v) (-9)^{-3}$$

$$6. \frac{(-7)^5}{(-7)^4} =$$

$$(i) -10 \quad (ii) -8 \quad (iii) -5 \quad (iv) (-7)^2 \quad (v) \frac{-7}{1}$$

$$\left(\frac{-3}{2}\right)^5$$

$$7. \frac{\left(\frac{3}{2}\right)^5}{5} =$$

$$(i) 3^{-3} \quad (ii) 5^{-3} \quad (iii) 5^{-4} \quad (iv) 8^{-3} \quad (v) 5^{-2}$$

$$\left(\frac{7}{5}\right)^{(-3/5)}$$

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

$$(i) \left(\frac{9}{5}\right)^{(12/5)} \quad (ii) \left(\frac{7}{5}\right)^{(16/7)} \quad (iii) 1 \quad (iv) \left(\frac{7}{5}\right)^{(8/3)} \quad (v) \left(\frac{7}{5}\right)^{(12/5)}$$

$$9. \frac{7^{-7}}{7^9} =$$

$$(i) 7^{-17} \quad (ii) 9^{-16} \quad (iii) 5^{-16} \quad (iv) 7^{-16} \quad (v) 7^{-15}$$

$$10. \frac{\left(\frac{7}{6}\right)^3}{\left(\frac{7}{6}\right)^{-5}} =$$

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

$$11. \frac{\left(\frac{5}{4}\right)^5}{\left(\frac{-3}{5}\right)^5} =$$

$$(i) 5^{\left(\frac{39}{22}\right)} \quad (ii) 5^{\left(\frac{37}{20}\right)} \quad (iii) 7^{\left(\frac{37}{20}\right)} \quad (iv) 5^{\left(\frac{35}{18}\right)} \quad (v) 2^{\left(\frac{37}{20}\right)}$$

$$\left(\frac{8}{7}\right)^4$$

12. $\frac{\quad}{\quad} =$

$$\left(\frac{8}{7}\right)^{-3}$$

(i) $\left(\frac{8}{7}\right)^7$ (ii) $\left(\frac{8}{7}\right)^8$ (iii) $\left(\frac{6}{7}\right)^7$ (iv) $\left(\frac{10}{7}\right)^7$ (v) $\left(\frac{8}{7}\right)^6$

Assignment Key

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