EduSahara™ Assignment

Name : Exercise2

Chapter : Exponents and Powers

Grade : SSC Grade VIII

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1. 7^{9} =

(i) $\left(\frac{1}{7}\right)^{-8}$ (ii) $\left(\frac{1}{7}\right)^{-10}$ (iii) $\left(\frac{-1}{7}\right)^{-9}$ (iv) $\left(\frac{1}{7}\right)^{-9}$ (v) $\left(\frac{3}{7}\right)^{-9}$

2. 3^{-5} =

(i) $\left(\frac{1}{3}\right)^{5}$ (ii) $\left(\frac{1}{3}\right)^{6}$ (iii) $\left(\frac{1}{3}\right)^{4}$ (iv) 1 (v) $\left(\frac{-1}{3}\right)^{5}$

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

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

4. $6^{\left(\frac{-3}{8}\right)}$ =

(i) $\left(\frac{1}{2}\right)^{(3/8)}$ (ii) $\left(\frac{1}{6}\right)^{(3/10)}$ (iii) $\left(\frac{1}{6}\right)^{(1/2)}$ (iv) $\left(\frac{-1}{6}\right)^{(3/8)}$ (v) $\left(\frac{1}{6}\right)^{(3/8)}$

5. 7^{3} =

(i) $\left(\frac{3}{7}\right)^{-3}$ (ii) $\left(\frac{-1}{7}\right)^{-3}$ (iii) $\left(\frac{1}{7}\right)^{-3}$ (iv) $\left(\frac{1}{7}\right)^{-2}$ (v) $\left(\frac{1}{7}\right)^{-4}$

6. 7^{-7} =

(i) $\left(\frac{1}{7}\right)^{7}$ (ii) $\left(\frac{-1}{7}\right)^{7}$ (iii) $\left(\frac{1}{7}\right)^{8}$ (iv) $\left(\frac{1}{7}\right)^{6}$ (v) $\left(\frac{3}{7}\right)^{7}$

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

(i) $\frac{2}{9}$ (ii) $\left(\frac{2}{9}\right)^{2}$ (iii) 0 (iv) $\left(\frac{2}{9}\right)^{3}$ (v) $\left(\frac{4}{9}\right)^{2}$

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

(i) $\left(\frac{2}{9}\right)^{(4/7)}$ (ii) $\left(\frac{2}{9}\right)^{(4/9)}$ (iii) $\left(\frac{2}{9}\right)^{(2/7)}$ (iv) $\left(\frac{4}{9}\right)^{(4/7)}$ (v) $\left(\frac{2}{9}\right)^{(4/5)}$

9. 6^{4} =

(i) $\left(\frac{1}{6}\right)^{-4}$ (ii) $\left(\frac{1}{2}\right)^{-4}$ (iii) $\left(\frac{-1}{6}\right)^{-4}$ (iv) $\left(\frac{1}{6}\right)^{-5}$ (v) $\left(\frac{1}{6}\right)^{-3}$

10. $(-6)^{-8}$ =

(i) $\left(\frac{-1}{6}\right)^{9}$ (ii) $\left(\frac{-1}{6}\right)^{7}$ (iii) $\left(\frac{-1}{2}\right)^{8}$ (iv) $\left(\frac{-1}{6}\right)^{8}$ (v) $\left(\frac{1}{6}\right)^{8}$

11. $\left(\frac{7}{4}\right)^{-3}$ =

(i) $\left(\frac{4}{7}\right)^{4}$ (ii) $\left(\frac{4}{7}\right)^{2}$ (iii) $\left(\frac{2}{7}\right)^{3}$ (iv) $\left(\frac{4}{7}\right)^{3}$ (v) $\left(\frac{6}{7}\right)^{3}$

12. $\left(\frac{-2}{5}\right)^{(-4/7)}$ =

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

Assignment Key

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