



1. $(-6 \times -3)^{-2} =$

- (i) $(-6)^{-2} \times (-3)^{-2}$ (ii) $(-6)^{-2} \times (-3)^{-1}$ (iii) $(-6)^{-2} \times (-3)^{-3}$ (iv) $(-6)^{-2} \times (-5)^{-2}$ (v) $(-6)^{-2} \times 0$

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

- (i) $6^5 \times (-5)^6 \times (-6)^6$ (ii) $6^5 \times (-2)^5 \times (-4)^5$ (iii) $6^5 \times (-5)^5 \times (-6)^5$ (iv) $6^5 \times (-5)^4 \times (-6)^4$ (v) $6^5 \times (-8)^5 \times (-8)^5$

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

- (i) $6^{(9/8)} \times 9^{(9/8)}$ (ii) $6^{(9/8)} \times 3^{(9/8)}$ (iii) $6^{(9/8)} \times 6^{(9/10)}$ (iv) $6^{(9/8)} \times 6^{(3/2)}$ (v) $6^{(9/8)} \times 6^{(9/8)}$

4. $(-2 \times -4 \times -4)^6 =$

- (i) $(-2)^6 \times (-4)^6 \times (-4)^6$ (ii) $(-2)^6 \times (-4)^5 \times (-4)^5$ (iii) $(-2)^6 \times (-6)^6 \times (-7)^6$ (iv) $(-2)^6 \times (-2)^6 \times (-1)^6$
- (v) $(-2)^6 \times (-4)^7 \times (-4)^7$

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

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

6. $((\frac{-6}{5}) \times (\frac{-5}{4}) \times \frac{7}{1})^6 =$

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

- (v) $6^{(6/5)} \times 6^{(6/4)} \times 4^6$

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

$$\begin{array}{cccc} (-5/7) & (-5/9) & (-5/7) & (-5/7) \\ \text{(i)} \left(\frac{7}{3}\right) & \times \left(\frac{-5}{6}\right) & \text{(ii)} \left(\frac{7}{3}\right) & \times \left(\frac{-1}{2}\right) \end{array}$$

$$\text{(iii)} \left(\frac{7}{3}\right) \times \left(\frac{-7}{6}\right) \quad \text{(iv)} \left(\frac{7}{3}\right) \times \left(\frac{-5}{6}\right)$$

$$\text{(v)} \left(\frac{7}{3}\right) \times \left(\frac{-5}{6}\right)^{-1}$$

$$8. \left(\left(\frac{-2}{3}\right) \times \left(\frac{-5}{6}\right) \times \frac{9}{8}\right)^{-3/4} =$$

$$\begin{array}{cccc} (-3/4) & (-3/4) & (-3/4) & (-3/4) \\ \text{(i)} \left(\frac{-2}{3}\right) & \times \left(\frac{-1}{2}\right) & \times \left(\frac{11}{8}\right) & \text{(ii)} \left(\frac{-2}{3}\right) \times \left(\frac{-7}{6}\right) \times \left(\frac{7}{8}\right) \end{array}$$

$$\begin{array}{cccc} (-3/4) & (-3/2) & (-3/2) & (-3/4) \\ \text{(iii)} \left(\frac{-2}{3}\right) & \times \left(\frac{-5}{6}\right) & \times \left(\frac{9}{8}\right) & \text{(iv)} \left(\frac{-2}{3}\right) \times \left(\frac{-5}{6}\right) \times \left(\frac{9}{8}\right) \end{array}$$

$$\text{(v)} \left(\frac{-2}{3}\right) \times \left(\frac{-5}{6}\right) \times \left(\frac{9}{8}\right)^{-1}$$

Assignment Key

1) (i)

2) (iii)

3) (v)

4) (i)

5) (iii)

6) (iii)

7) (iv)

8) (iv)