



1. $(3 \times 3)^8 =$

- (i) $3^8 \times 3^9$ (ii) $3^8 \times 5^8$ (iii) $3^8 \times 3^7$ (iv) $3^8 \times 3^8$ (v) $3^8 \times 3^6$

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

- (i) $(-7)^{-6} \times (-2)^{-7} \times 7^{-7}$ (ii) $(-7)^{-6} \times (-2)^{-5} \times 7^{-5}$ (iii) $(-7)^{-6} \times 1 \times 10^{-6}$ (iv) $(-7)^{-6} \times (-5)^{-6} \times 5^{-6}$
- (v) $(-7)^{-6} \times (-2)^{-6} \times 7^{-6}$

3. $(-9 \times -9)^8 =$

- (i) $(-9)^8 \times (-9)^7$ (ii) $(-9)^8 \times (-12)^8$ (iii) $(-9)^8 \times (-9)^8$ (iv) $(-9)^8 \times (-7)^8$ (v) $(-9)^8 \times (-9)^9$

4. $(-3 \times -2 \times -7)^{8/5} =$

- (i) $(\frac{8}{5})_{(-3)} \times (\frac{8}{5})_{(-2)} \times (\frac{8}{5})_{(-7)}$ (ii) $(\frac{8}{5})_{(-3)} \times (\frac{8}{7})_{(-2)} \times (\frac{8}{7})_{(-7)}$ (iii) $(\frac{8}{5})_{(-3)} \times 1 \times (\frac{8}{5})_{(-5)}$
- (iv) $(\frac{8}{5})_{(-3)} \times (\frac{8}{5})_{(-4)} \times (\frac{8}{5})_{(-10)}$ (v) $(\frac{8}{5})_{(-3)} \times (\frac{8}{3})_{(-2)} \times (\frac{8}{3})_{(-7)}$

5. $(\frac{4}{3} \times (\frac{-2}{5}))^{-9} =$

- (i) $(\frac{4}{3})^{-9} \times (\frac{-2}{5})^{-9}$ (ii) $(\frac{4}{3})^{-9} \times (\frac{-2}{5})^{-6}$ (iii) $(\frac{4}{3})^{-9} \times (\frac{-4}{5})^{-9}$ (iv) $(\frac{4}{3})^{-9} \times (\frac{-2}{5})^{-8}$ (v) $(\frac{4}{3})^{-9} \times (\frac{-2}{5})^{-10}$

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

- (i) $(\frac{3}{2})^{-4} \times (\frac{4}{5})^{-4} \times (\frac{4}{5})^{-4}$ (ii) $(\frac{3}{2})^{-4} \times (\frac{6}{5})^{-4} \times (\frac{6}{5})^{-4}$ (iii) $(\frac{3}{2})^{-4} \times (\frac{6}{5})^{-5} \times (\frac{6}{5})^{-5}$ (iv) $(\frac{3}{2})^{-4} \times (\frac{6}{5})^{-3} \times (\frac{6}{5})^{-3}$
- (v) $(\frac{3}{2})^{-4} \times (\frac{8}{5})^{-4} \times (\frac{8}{5})^{-4}$

$$7. \left(\frac{7}{3} \times \left(\frac{-6}{5}\right)\right)^{9/4} =$$

$$(i) \overset{(9/4)}{\left(\frac{7}{3}\right)} \times \overset{(9/4)}{\left(\frac{-6}{5}\right)} \quad (ii) \overset{(9/4)}{\left(\frac{7}{3}\right)} \times \overset{(9/4)}{\left(\frac{-8}{5}\right)} \quad (iii) \overset{(9/4)}{\left(\frac{7}{3}\right)} \times \overset{(3/2)}{\left(\frac{-6}{5}\right)} \quad (iv) \overset{(9/4)}{\left(\frac{7}{3}\right)} \times \overset{(9/4)}{\left(\frac{-4}{5}\right)}$$

$$(v) \overset{(9/4)}{\left(\frac{7}{3}\right)} \times \overset{(9/2)}{\left(\frac{-6}{5}\right)}$$

$$8. \left(\left(\frac{-3}{4}\right) \times \left(\frac{-7}{5}\right) \times \frac{7}{6}\right)^{4/3} =$$

$$(i) \overset{(4/3)}{\left(\frac{-3}{4}\right)} \times \overset{(4/5)}{\left(\frac{-7}{5}\right)} \times \overset{(4/5)}{\left(\frac{7}{6}\right)} \quad (ii) \overset{(4/3)}{\left(\frac{-3}{4}\right)} \times \overset{(4/3)}{\left(\frac{-9}{5}\right)} \times \overset{(4/3)}{\left(\frac{5}{6}\right)} \quad (iii) \overset{(4/3)}{\left(\frac{-3}{4}\right)} \times \overset{4}{\left(\frac{-7}{5}\right)} \times \overset{4}{\left(\frac{7}{6}\right)}$$

$$(iv) \overset{(4/3)}{\left(\frac{-3}{4}\right)} \times \overset{\left(\frac{4}{3}\right)}{(-1)} \times \overset{(4/3)}{\left(\frac{3}{2}\right)} \quad (v) \overset{(4/3)}{\left(\frac{-3}{4}\right)} \times \overset{(4/3)}{\left(\frac{-7}{5}\right)} \times \overset{(4/3)}{\left(\frac{7}{6}\right)}$$

Assignment Key

1) (iv)

2) (v)

3) (iii)

4) (i)

5) (i)

6) (ii)

7) (i)

8) (v)