



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

- (i) $(-2)^6 \times 9^6$ (ii) $(-2)^6 \times 6^6$ (iii) $(-2)^6 \times 3^6$ (iv) $(-2)^6 \times 6^5$ (v) $(-2)^6 \times 6^7$

2. $(-3 \times -2 \times 7)^8 =$

- (i) $(-3)^8 \times (-2)^8 \times 7^8$ (ii) $(-3)^8 \times (-4)^8 \times 5^8$ (iii) $(-3)^8 \times 1 \times 9^8$ (iv) $(-3)^8 \times (-2)^7 \times 7^7$ (v) $(-3)^8 \times (-2)^9 \times 7^9$

3. $(-4 \times 6)^{-9/4} =$

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

4. $(-7 \times -5 \times -9)^{-9/2} =$

- (i) $(-7)^{\frac{-9}{2}} \times (-5)^{\frac{-9}{2}} \times (-9)^{\frac{-9}{2}}$ (ii) $(-7)^{\frac{-9}{2}} \times (-8)^{\frac{-9}{2}} \times (-12)^{\frac{-9}{2}}$ (iii) $(-7)^{\frac{-9}{2}} \times (-5)^{-9} \times (-9)^{-9}$
- (iv) $(-7)^{\frac{-9}{2}} \times (-3)^{\frac{-9}{2}} \times (-6)^{\frac{-9}{2}}$ (v) $(-7)^{\frac{-9}{2}} \times (-5)^{\frac{-9}{4}} \times (-9)^{\frac{-9}{4}}$

5. $((\frac{-7}{6}) \times \frac{8}{7})^9 =$

- (i) $(\frac{-7}{6})^9 \times (\frac{8}{7})^8$ (ii) $(\frac{-7}{6})^9 \times (\frac{8}{7})^9$ (iii) $(\frac{-7}{6})^9 \times (\frac{6}{7})^9$ (iv) $(\frac{-7}{6})^9 \times (\frac{10}{7})^9$ (v) $(\frac{-7}{6})^9 \times (\frac{8}{7})^{10}$

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

- (i) $(\frac{4}{3})^4 \times (\frac{8}{5})^4 \times (\frac{7}{5})^4$ (ii) $(\frac{4}{3})^4 \times (\frac{8}{5})^5 \times (\frac{7}{5})^5$ (iii) $(\frac{4}{3})^4 \times (\frac{8}{5})^3 \times (\frac{7}{5})^3$ (iv) $(\frac{4}{3})^4 \times (\frac{6}{5})^4 \times 1$
- (v) $(\frac{4}{3})^4 \times 2^4 \times (\frac{9}{5})^4$

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

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

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

$$8. \left(\frac{-4}{1} \times \frac{5}{2} \times \frac{5}{4}\right)^{-5/6} =$$

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

$$(iv) \left(\frac{-5}{6}\right)^{(-5/6)} \times \left(\frac{5}{2}\right)^{(-5/6)} \times \left(\frac{5}{4}\right)^{(-5/6)} \quad (v) \left(\frac{-5}{6}\right)^{(-5/8)} \times \left(\frac{5}{2}\right)^{(-5/8)} \times \left(\frac{5}{4}\right)^{(-5/8)}$$

Assignment Key

1) (ii)

2) (i)

3) (ii)

4) (i)

5) (ii)

6) (i)

7) (i)

8) (iv)