

Exercise 8

Simplify the following (1 to 20):

1. (i) $(81/16)^{-3/4}$

Solution:

$$\begin{aligned} (81/16)^{-3/4} &= [(3^4/2^4)]^{-3/4} \\ &= [(3/2)^4]^{-3/4} \\ &= (3/2)^{-3/4 \times 4} \\ &= (3/2)^{-3} \\ &= (2/3)^3 \\ &= 2^3/3^3 \\ &= (2 \times 2 \times 2)/(3 \times 3 \times 3) \\ &= 8/27 \end{aligned}$$

(ii) $(1 \frac{61}{64})^{-2/3}$

Solution:

$$\begin{aligned} (1 \frac{61}{64})^{-2/3} &= (\frac{125}{64})^{-2/3} = (\frac{5^3}{4^3})^{-2/3} \\ &= (5/4)^{3 \times -2/3} \\ &= (5/4)^{-2} \\ &= (4/5)^2 \\ &= 16/25 \end{aligned}$$

2. (i) $(2a^{-3}b^2)^3$

Solution:

$$\begin{aligned} (2a^{-3}b^2)^3 &= 2^3 a^{-3 \times 3} b^{2 \times 3} \\ &= 8a^{-9}b^6 \end{aligned}$$

(ii) $(a^{-1} + b^{-1})/(ab)^{-1}$

Solution:

$$\frac{a^{-1} + b^{-1}}{(ab)^{-1}} = \frac{\frac{1}{a} + \frac{1}{b}}{\frac{1}{ab}} = \frac{a+b}{ab} \times \frac{ab}{1} = a+b$$

3. (i) $(x^{-1}y^{-1})/(x^{-1} + y^{-1})$

Solution:

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