



1. The value of $(-2)^2 + (-3)^2$

- (i) 12 (ii) 13^2 (iii) 11 (iv) 13 (v) 16

2. The value of $(-3)^{-2} + (-3)^{-3}$

- (i) $\left(\frac{2}{27}\right)^{-1}$ (ii) $\frac{2}{25}$ (iii) $\frac{4}{27}$ (iv) $\frac{2}{27}$ (v) $\left(\frac{2}{27}\right)^2$

3. The value of $\left(\frac{-1}{2}\right)^2 + \left(\frac{-1}{3}\right)^2$

- (i) $\frac{5}{12}$ (ii) $\frac{11}{36}$ (iii) $\frac{13}{34}$ (iv) $\left(\frac{13}{36}\right)^2$ (v) $\frac{13}{36}$

4. The value of $\left(\frac{-5}{2}\right)^{-2} + \left(\frac{1}{3}\right)^{-3}$

- (i) $\frac{679}{25}$ (ii) $\frac{677}{25}$ (iii) $\left(\frac{679}{25}\right)^2$ (iv) $\frac{681}{25}$ (v) $\frac{679}{23}$

5. The value of $(-3)^3 - (-2)^3$

- (i) -20 (ii) $(-19)^2$ (iii) -21 (iv) -16 (v) -19

6. The value of $(-3)^{-3} - (-4)^{-3}$

- (i) $\left(\frac{-35}{1728}\right)$ (ii) $\left(\frac{-37}{1726}\right)$ (iii) $\left(\frac{-37}{1728}\right)$ (iv) $\left(\frac{-13}{576}\right)$ (v) $\left(\frac{-37}{1728}\right)^2$

7. The value of $\left(\frac{-3}{2}\right)^2 - \left(\frac{-1}{2}\right)^2$

- (i) 2^2 (ii) 2 (iii) 4 (iv) 1 (v) -1

8. The value of $\left(\frac{-1}{2}\right)^{-2} - \left(\frac{-4}{3}\right)^{-2}$

(i) $\left(\frac{55}{16}\right)^2$ (ii) $\frac{57}{16}$ (iii) $\frac{53}{16}$ (iv) $\frac{55}{14}$ (v) $\frac{55}{16}$

9. The value of $(-4)^2 \times (-5)^3$

(i) -2001 (ii) -2003 (iii) $(-2000)^2$ (iv) -2000 (v) -1998

10. The value of $2^{-2} \times 3^{-3}$

(i) 105^{-1} (ii) 109^{-1} (iii) 110^{-1} (iv) 108^{-1} (v) 108^{-2}

11. The value of $\left(\frac{3}{2}\right)^3 \times \left(\frac{-5}{2}\right)^3$

(i) $\left(\frac{-3375}{64}\right)^2$ (ii) $\left(\frac{-3375}{64}\right)$ (iii) $\left(\frac{-3377}{64}\right)$ (iv) $\left(\frac{-3373}{64}\right)$ (v) $\left(\frac{-3375}{62}\right)$

12. The value of $\left(\frac{-3}{2}\right)^{-2} \times \left(\frac{1}{2}\right)^{-3}$

(i) $\frac{32}{7}$ (ii) $\frac{10}{3}$ (iii) $\frac{32}{9}$ (iv) $\frac{34}{9}$ (v) $\left(\frac{32}{9}\right)^2$

13. The value of $(-3)^3 \div (-3)^2$

(i) -6 (ii) $(-3)^2$ (iii) -3 (iv) -1 (v) -4

14. The value of $5^{-3} \div 5^{-3}$

(i) 3^{-1} (ii) 2^{-1} (iii) $(-1)^{-1}$ (iv) 1

15. The value of $\left(\frac{-2}{3}\right)^2 \div \left(\frac{2}{3}\right)^3$

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

16. The value of $\left(\frac{4}{3}\right)^{-3} \div \left(\frac{-1}{3}\right)^{-2}$

(i) $\frac{5}{64}$ (ii) $\left(\frac{3}{64}\right)^2$ (iii) $\frac{3}{62}$ (iv) $\frac{3}{64}$ (v) $\frac{1}{64}$

17. Find the square root of 16

(i) 4 (ii) 7 (iii) 3 (iv) 1 (v) 5

18. Find the cube root of 64

(i) 5 (ii) 3 (iii) 7 (iv) 2 (v) 4

19. Find the 4th root of 81

(i) 4 (ii) 3 (iii) 0 (iv) 2 (v) 5

20. Find the 5th root of -32

(i) -1 (ii) 1 (iii) -3 (iv) -5 (v) -2

21. Find the 6th root of 4096

(i) 4 (ii) 1 (iii) 5 (iv) 3 (v) 7

22. Find the square root of $\frac{9}{16}$

(i) $\frac{3}{4}$ (ii) $\frac{3}{2}$ (iii) $\frac{1}{2}$ (iv) $\frac{5}{4}$ (v) $\frac{1}{4}$

23. Find the cube root of $\left(\frac{-64}{27}\right)$

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

24. Find the 4th root of $\frac{625}{256}$

(i) $\frac{3}{4}$ (ii) $\frac{7}{6}$ (iii) $\frac{5}{4}$ (iv) $\frac{3}{2}$ (v) $\frac{7}{4}$

25. Find the 5th root of $\frac{243}{32}$

(i) $\frac{3}{2}$ (ii) $\frac{3}{4}$ (iii) $\frac{5}{2}$ (iv) 3 (v) $\frac{1}{2}$

26. Find the 6th root of $\frac{729}{64}$

(i) $\frac{3}{2}$ (ii) $\frac{5}{4}$ (iii) $\frac{5}{2}$ (iv) 2 (v) $\frac{1}{2}$

27. Find the value of ${}_{25}^{\binom{3}{2}}$

- (i) 123 (ii) 127 (iii) 126 (iv) 125 (v) 124

(5/3)

28. Find the value of $\left(\frac{27}{8}\right)$

- (i) $\frac{243}{32}$ (ii) $\frac{245}{32}$ (iii) $\frac{81}{10}$ (iv) $\frac{243}{34}$ (v) $\frac{241}{32}$

$\left(\frac{-4}{3}\right)$

29. Find the value of ${}_{125}$

- (i) $\frac{3}{625}$ (ii) $\frac{1}{625}$ (iii) $\frac{1}{623}$ (iv) $\left(\frac{-1}{625}\right)$ (v) $\frac{1}{627}$

-5

30. Find the value of $\left(\frac{-3}{2}\right)$

- (i) $\left(\frac{-32}{241}\right)$ (ii) $\left(\frac{-32}{245}\right)$ (iii) $\left(\frac{-10}{81}\right)$ (iv) $\left(\frac{-34}{243}\right)$ (v) $\left(\frac{-32}{243}\right)$

Assignment Key

1) (iv)	2) (iv)	3) (v)	4) (i)	5) (v)	6) (iii)
7) (ii)	8) (v)	9) (iv)	10) (iv)	11) (ii)	12) (iii)
13) (iii)	14) (iv)	15) (ii)	16) (iv)	17) (i)	18) (v)
19) (ii)	20) (v)	21) (i)	22) (i)	23) (iii)	24) (iii)
25) (i)	26) (i)	27) (iv)	28) (i)	29) (ii)	30) (v)