



MATHS

BOOKS - NAVNEET PUBLICATION

EXPANSION FORMULAE

Question Bank

1. Expand :

$$(a + 2)(a - 1)$$



Watch Video Solution

2. Expand :

$$(m - 4)(m + 6)$$



[Watch Video Solution](#)

3. Expand :

$$(p + 8)(p - 3)$$



[Watch Video Solution](#)

4. Expand :

$$(13 + x)(13 - x)$$



[Watch Video Solution](#)

5. Expand :

$$(3x + 4y)(3x + 5y)$$



[Watch Video Solution](#)

6. Expand :

$$(9x - 5t)(9x + 3t)$$



[Watch Video Solution](#)

7. Expand :

$$\left(m + \frac{2}{3}\right)\left(m - \frac{7}{3}\right)$$



[Watch Video Solution](#)

8. Expand :

$$\left(x + \frac{1}{x}\right)\left(x - \frac{1}{x}\right)$$



[Watch Video Solution](#)

9. Expand :

$$\left(\frac{1}{y} + 4\right)\left(\frac{1}{y} - 9\right)$$



Watch Video Solution

10. Expand :

$$(k + 4)^3$$



Watch Video Solution

11. Expand :

$$(7x + 8y)^3$$



Watch Video Solution



Watch Video Solution

12. Expand :

$$(7 + m)^3$$



Watch Video Solution

13. Expand :

$$(52)^3$$



Watch Video Solution

14. Expand :

$$(101)^3$$



Watch Video Solution

15. Expand :

$$\left(x + \frac{1}{x}\right)^3$$



Watch Video Solution

16. Expand :

$$\left(2m + \frac{1}{5}\right)^3$$



Watch Video Solution

17. Expand :

$$\left(\frac{5x}{y} + \frac{y}{5x}\right)^3$$



Watch Video Solution

18. Expand :

$$(2m - 5)^3$$



Watch Video Solution

19. Expand :

$$(4 - p)^3$$



Watch Video Solution

20. Expand :

$$(7x - 9y)^3$$



[Watch Video Solution](#)

21. Expand :

$$(58)^3$$



[Watch Video Solution](#)

22. Expand :

$$(198)^3$$



[Watch Video Solution](#)

23. Expand :

$$\left(2p - \frac{1}{2p}\right)^3$$



Watch Video Solution

24. Expand :

$$\left(1 - \frac{1}{a}\right)^3$$



Watch Video Solution

25. Expand :

$$\left(\frac{x}{3} - \frac{3}{x}\right)^3$$



Watch Video Solution

26. Simplify :

$$(2a + b)^3 - (2a - b)^3$$



Watch Video Solution

27. Simplify :

$$(3r - rk)^3 + (3r + 2k)^3$$



[Watch Video Solution](#)

28. Simplify :

$$(4a - 3)^3 - (4a + 3)^3$$



[Watch Video Solution](#)

29. Simplify :

$$(5x - 7y)^3 + (5x + 7y)^3$$



[Watch Video Solution](#)

30. Expand :

$$(2p + q + 5)^2$$



Watch Video Solution

31. Expand :

$$(m + 2n + 3r)^2$$



Watch Video Solution

32. Expand :

$$(3x + 4y - 5p)^2$$



Watch Video Solution

33. Expand :

$$(7m - 3n - 4k)^2$$



Watch Video Solution

34. Simplify :

$$(x - 2y + 3)^2 + (x + 2y - 3)^2$$



Watch Video Solution

35. Simplify :

$$(3k - 4r - 2m)^2 - (3k + 4r - 2m)^2$$



Watch Video Solution

36. Simplify :

$$(7a - 6b + 5c)^2 + (7a + 6b - 5c)^2$$



Watch Video Solution

37. Choose the correct alternative answer for each of the following question :

The expansion of $(x - 10)(x + 12)$ is

A. $x^2 + 2x - 120$

B. $x^2 - 2x - 120$

C. $x^2 + 2x + 120$

D. $x^2 - 2x + 120$

Answer: A



Watch Video Solution

38. Choose the correct alternative answer for each of the following question :

$$(m - 3)(m - 7) = ?$$

A. $m^2 - 10m - 21$

B. $m^2 - 10m + 21$

C. $m^2 + 4m + 21$

D. $m^2 - 4m - 21$

Answer: B



Watch Video Solution

39. Choose the correct alternative answer for each of the following question :

The expansion of $\left(x + \frac{1}{3}\right)\left(x - \frac{7}{3}\right)$ is...

A. $x^2 - \frac{8}{3}x - \frac{7}{9}$

B. $x^2 + \frac{8x}{3} - \frac{7}{9}$

C. $x^2 - 2x + \frac{7}{9}$

D. $x^2 - 2x - \frac{7}{9}$

Answer: D



Watch Video Solution

40. Fill in the blanks :

$$(x + 4)(x - 3) = x^2 + (\dots\dots\dots)x + (4) \times (\dots\dots)$$



Watch Video Solution

41. Fill in the blanks :

$$(2x + 5y)(2x + 5y) = (2x)^2 + (\dots) \times 2x + (5y)^2$$



Watch Video Solution

42. Expand :

$$(p + 5)(p + 2).$$



Watch Video Solution

43. Expand :

$$(x - 2)(x + 4).$$



Watch Video Solution

44. Expand :

$$(n - 3)(n - 7).$$



Watch Video Solution

45. Expand : (Use formulae)

$$\left(\frac{4x}{3y} + \frac{3y}{4x} \right)^3$$



[Watch Video Solution](#)

46. Expand : (Use formulae)

$$(28)^3$$



[Watch Video Solution](#)

47. Expand : (Use formulae)

$$(23)^3$$



[Watch Video Solution](#)

48. Expand : (Use formulae)

$$(x - y - 3)^2$$



Watch Video Solution

49. Simplify : (Use formulae)

$$(3x - 7y)^3 + (3x + 7y)^3$$



Watch Video Solution

50. Simplify : (Use formulae)

$$(5x - 4)^3 + (5x + 4)^3$$



[Watch Video Solution](#)

51. Simplify : (Use formulae)

$$(2a - 3b + 4c)^2 - (2a + 3b - 4c)^2$$



[Watch Video Solution](#)

52. Simplify : (Use formulae)

$$(4x - 5y + 6z)^2 + (4x + 5y - 6z)^2$$



[Watch Video Solution](#)