



แบบฝึกหัดการคูณพหุนามกำลังสี่

จงหาผลคูณของพหุนามต่อไปนี้โดยใช้ตารางโดยยึดหลักการคูณเวทคณิตแบบแนวตั้งและแนวไขว้

1. $(4x^4 - 2x^3 + 5x^2 - 2x + 5)(5x^4 - 9x^3 + 7x^2 - 8x + 4)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				4	-2	5	-2	5
				5	-9	7	-8	4

2. $(x^4 - 8x^3 + 3x^2 - 9x + 1)(x^4 - 7x^3 + 7x^2 - 12x + 9)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				1	-8	3	-9	1
				1	-7	7	-12	9

3. $(9x^4 - 5x^3 + 7x^2 - 8)(6x^4 - 4x^2 - 5x + 3)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				9	-5	7	0	-8
				6	0	-4	-5	3

4. $(4x^4 + 7x^3 - 9x^2 + 5x - 5)(6x^4 + 7x^3 - 3x^2 + 8x - 2)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				4	7	-9	5	-5
				6	7	-3	8	-2

5. $(9x^4 + 4x^3 - 6x^2 + 2x - 5)(8x^4 - 7x^3 + 3x^2 - x + 8)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				9	4	-6	2	-5
				8	-7	3	-1	8





6. $(8x^4 + 6x^3 - 5x^2 + 7x - 2)(6x^4 - 7x^3 + 5x^2 - 8x + 4)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				8	6	-5	7	-2
				6	-7	5	-8	4

7. $(3x^4 - 8x^3 + 2x^2 - 9x + 10)(4x^4 - 5x^3 + 8x^2 - 6x + 1)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				3	-8	2	-9	10
				4	-5	8	-6	1

8. $(6x^4 - 5x^3 + 4x^2 - 3x + 8)(7x^4 + 6x^3 - 12x^2 + 2x - 9)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				6	-5	4	-3	8
				7	6	-12	2	-9

9. $(5x^4 - x^3 + 7x^2 - 5x + 2)(8x^4 - 7x^3 + 9x^2 - 2x + 6)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				5	-1	7	-5	2
				8	-7	9	-2	6

10. $(7x^4 - 5x^3 - 9x^2 + 4x - 2)(9x^4 - 3x^3 + x^2 + 4x - 2)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				7	-5	-9	4	-2
				9	-3	1	4	-2





11. $(6x^4 - 9x^3 + 2x + 1)(4x^3 + 7x^2 - 5)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				6	-9	0	2	1
				0	4	7	0	-5

12. $(4x^4 - 5x^2 + 8x - 1)(7x^4 + 5x^3 + 6x - 5)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				4	0	-5	8	-1
				7	5	0	6	-5

13. $(6x^4 - 6x^3 + 7x^2 - 1)(12x^3 - 5x^2 + 2x)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				6	-6	7	0	-1
				0	12	-6	2	0

14. $(5x^4 - x^3 + 5x^2 + 7x - 9)(8x^3 - 6x^2 + 8)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				5	-1	5	7	-9
				0	8	-6	0	8

15. $(7x^4 + 5x^3 - 8x + 2)(9x^3 + 2x - 8)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				7	5	0	-8	2
				0	9	0	2	-8





16. $(5x^4 - 8x^2 + 9)(7x^3 - 3x^2 + 6)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				5	0	-8	0	9
				0	7	-3	0	6

17. $(7x^4 - x^3 + 5x^2 - 1)(5x^4 + 5x - 2)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				7	-1	5	0	-1
				5	0	0	5	-2

18. $(9x^4 - 8x^2 + 6x)(4x^3 - 9x^2 + 5)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				9	0	-8	6	0
				0	4	-9	0	5

19. $(7x^4 - 6x^3 + 2x - 6)(7x^3 - 8x^2 + 7)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				7	-6	0	2	-6
				0	7	-8	0	7

20. $(2x^4 - 6x^3 + 3x^2 - 4x + 12)(5x^4 - 9x^2 + x - 7)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				2	-6	3	-4	12
				5	0	-9	1	-7





21. $(6x^4 - 2x^3 + 7x^2 - x + 7)(2x^4 + 5x^3 - 6x^2 + 3x - 4)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				6	-2	7	-1	7
				2	5	-6	3	-4

22. $(5x^4 - 6x^3 + 2x^2 - 5x + 1)(4x^4 - 5x^3 - 6x^2 + 2x - 4)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				5	-6	2	-5	1
				4	-5	-6	2	-4

23. $(x^4 - 11x^3 + 5x^2 - 7x + 2)(5x^4 - 3x^3 + 2x^2 - 5x + 1)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				1	-11	5	-7	2
				5	-3	2	-5	1

24. $(10x^4 - 8x^3 + 5x^2 - 4x + 3)(x^4 - 5x^3 - 2x^2 + 4x - 5)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				10	-8	5	-4	3
				1	-5	-2	4	-5

25. $(4x^4 - 2x^3 + 5x^2 - 3x + 9)(2x^4 - 2x^3 + 7x^2 - 6x + 5)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				4	-2	5	-3	9
				2	-2	7	-6	5





26. $(2x^4 - 4x^3 + 5x^2 - x - 8)(2x^4 - 9x^3 + 3x^2 - 2x + 6)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				2	-4	5	-1	-8
				2	-9	3	-2	6

27. $(x^4 + 8x^3 - 4x^2 + 5x - 7)(8x^4 + 7x^3 - 3x^2 + 3x - 4)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				1	8	-4	5	-7
				8	7	3	3	-4

28. $(5x^4 + x^3 - 3x^2 - 2x + 3)(4x^4 + 6x^3 - x^2 + 8x - 4)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				5	1	-3	-2	3
				4	6	-1	8	-4

29. $(5x^4 + 2x^3 + x^2 - 7x + 3)(x^4 - 4x^3 + 6x^2 - 7x + 10)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				5	2	1	-7	3
				1	-4	6	-7	10

30. $(2x^4 + 3x^3 - x^2 + 5x - 3)(6x^4 - 8x^3 + 7x^2 - 3x + 5)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				2	3	-1	5	-3
				6	-8	7	-3	5





31. $(2x^4 - x^3 + 6x + 1)(3x^3 - 9x^2 - 6x)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				2	-1	0	6	1
				0	3	9	-6	0

32. $(x^4 - 10x^2 + 5x - 7)(2x^3 - 7x^2 + 2x + 8)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				1	0	-10	5	-7
				0	2	-7	2	8

33. $(x^4 + 3x^3 - 5x^2 + 4x - 1)(5x^4 - 2x^3 - 6x^2 - 2x + 1)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				1	3	-5	4	-1
				5	-2	-6	-2	1

34. $(3x^4 + 7x^3 - 2x^2 - 5x + 4)(7x^3 - 8x^2 + x - 2)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				3	7	-2	-5	4
				0	7	-8	1	-2

35. $(2x^4 - 5x^3 + 7x^2 - 2x + 7)(3x^3 - 6x^2 + 3x - 9)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				2	-5	7	-2	7
				0	3	-6	3	-9





36. $(2x^4 - x^3 + 5x^2 - 7x - 4)(5x^3 - 9x^2 + 4x - 3)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				2	-1	5	-7	-4
				0	5	-9	4	-3

37. $(4x^4 - 6x^3 + 7x^2 + 4x - 1)(9x^4 + 5x^2 - 9x + 3)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				4	-6	7	4	-1
				9	0	5	-9	3

38. $(6x^4 + 8x^3 - 9x - 7)(x^4 + 3x^3 - 2x + 5)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				6	8	0	-9	-7
				1	3	0	-2	5

39. $(4x^4 - 5x^3 + 8x^2 - 2x + 3)(2x^3 - 6x^2 + x - 6)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				4	-5	8	-2	3
				1	2	-6	1	-6

40. $(4x^4 - 6x^3 + 7x^2 - 1)(x^4 - 6x^2 + 9x + 4)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				4	-6	7	0	-1
				1	0	-6	9	4





41. $(2x^4 - 2x^3 + 4x^2 - 6x + 9)(5x^4 - 5x^3 + 6x^2 - 3x + 6)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				2	-2	4	-6	9
				5	-5	6	-3	6

42. $(3x^4 - x^3 + 2x^2 - 7x + 1)(5x^4 - 6x^3 + 7x^2 - 8x + 9)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				3	-1	2	-7	1
				5	-6	7	-8	9

43. $(x^4 + 2x^3 + 3x^2 - 4x + 5)(6x^4 + 7x^3 + 8x^2 - 9x)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				1	2	3	-4	5
				6	7	8	-9	0

44. $(8x^4 - 6x^3 + 5x^2 - 7x + 9)(3x^4 - 5x^3 + 2x^2 + x - 8)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				8	-6	5	-7	9
				3	-5	2	1	-8

45. $(x^4 - 8x^3 + 5x^2 - 2)(2x^4 - 9x^3 - 9x - 3)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				1	-8	5	0	-2
				2	9	0	-9	-3





46. $(x^4 - 9x^3 - 5x^2 + 2x - 7)(5x^4 - 4x^3 + x^2 - 2x + 11)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				1	-9	-5	2	-7
				5	-4	1	-5	11

47. $(8x^4 + 5x^3 - 3x^2 + 2x - 4)(9x^4 - 5x^3 + 3x^2 + x - 2)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				8	5	-3	2	-4
				9	-5	3	1	-2

48. $(6x^4 - 3x^2 - 4x + 11)(7x^4 + 3x^3 + 6x^2 + 2)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				6	0	-3	-4	11
				7	3	6	0	2

49. $(5x^4 - 7x^3 + 6x^2 - 9x + 7)(6x^4 + 7x^3 + 3x^2 - 4x + 5)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				5	-7	6	-9	7
				6	7	3	-4	5

50. $(4x^4 - 6x^3 + 9x^2 - 3x + 7)(4x^4 - 7x^3 + 4x^2 + 5x - 12)$

x^8	x^7	x^6	x^5	x^4	x^3	x^2	x^1	x^0
				4	-6	9	-3	7
				4	-7	4	5	-12

