Polynomials

Multiplication with Addition and subtraction

1. $2(x+3)=2x+6$
2. $6(x+1)=6x+6$
3. $4(x+5)=4x+20$
3. $7(3x+5)=21x+35$
4. $3(9x+7)=27x+21$
6. $5(4x+7)=20x+35$
7. $6(3x-1)=18x-6$
8. $8(5x-3)=40x-24$
9. $4(12x-8)=48x-32$
10. $4(-7x+3)=-28x+12$
11. $9(-4x+7)=-36x+63$
12. $12(-5x+3)=-60x+36$
13. $-1(5x+2)=-5x-2$
14. $-(3x+1)=-3x-1$
15. $-(7x+2)=-7x-2$
16. $-2(5x+6)=-10x-12$
17. $-3(2x+5)=-6x-15$
18. $-7(4x+6)=-28x-42$
19. $-4(5x-8)=-20x+32$
20. $-8(2x-3)=-16x+18$
21. $-4(7x-2)=-28x+8$
22. $-6(-4x-3)=24x+18$
23. $-9(-2x-5)=18x+45$
24. $-5(-3x-7)=15x+35$
25. $2(3x^2-5x+3)=6x^2-10x+6$
26. $3(5x^2-7x+3)=15x^2-21x+9$
27. $6(-2x^2+5x-2)=-12x^2+30x-12$
28. $4(5x^3+4x^2-7x)=20x^3+16x^2-28x$
29. $-2(5x^2+3x-7)=-10x^2-6x+14$
30. $-5(-4x^3+8x-2)=20x^3-40x+10$
31. $2(x+3)+4(x+6)=2x+6+4x+24=6x+30$
32. $5(2x+3)+4(x+2)=10x+15+4x+8=14x+23$
33. $8(2x+3)+5(x+4)=16x+24+5x+20=21x+44$
34. $4(3x-2)+5(2x-3)=12x-8+10x-15=22x-23$
35. $7(2x-6)+3(3x-5)=14x-42+9x-15=23x-57$
36. $3(6x-1)+2(8x-3)=18x-3+16x-6=34x-9$
37. $4(3x+5)-6(2x+3)=12x+20-12x-18=2$
38. $5(3x+1)-4(2x+3)=15x+5-8x-12=7x-7$

39. $8(2x+3)-5(3x+4)=16x+24-15x-20=x+4$

40. $-4(2x+1)+3(4x+1)=-8x-4+12x+3=4x-1$

41. $-6(2x+5)+3(7x+2)=-12x-30+21x+6=9x-24$

42. $-4(3x+5)+6(x+5)=-12x-20+6x+30=-6x+10$

43. $-2(3x+1)-3(4x+1)=-6x-2-12x-3=-18x-5$

44. $-4(3x+5)-3(6x+2)=-12x-20-18x-6=-30x-26$

45. $-7(2x+4)-3(4x+1)=-14x-28-12x-3=-26x-31$

46. $-6(5x-3)-7(2x-4)=-30x+18-14x+28=-44x+46$

47. $-5(2x-7)-3(6x-5)=-10x+35-18x+15=-28x+50$

48. $-3(6x-2)-5(4x-3)=-18x+6-20x+15=-38x+21$

49. $2(3x^2+7x-3)+4(2x^2-5x+4)=6x^2+14x-6+8x^2-20x+16=14x^2-6x+10$

50. $5(4x^2+6x-5)+3(2x^2-7x-1)=20x^2+30x-25+6x^2-21x-3=26x^2+9x-28$

51. $7(4x^2-3x-7)+5(3x^2-9x-8)=28x^2-21x-49+15x^2-45x-40=43x^2-66x-89$

52. $4(3x^2-x+5)-5(4x^2-6x+7)=12x^2-4x+20-20x^2+30x-35=-8x^2+26x-15$

53. $5(2x^2-6x+3)-4(3x^2-5x-2)=10x^2-30x+15-12x^2+20x+8=-2x^2-10x+23$

54. $3(-6x^2-7x+1)-4(2x^2-8x+3)=-18x^2-21x+3-8x^2+32x-12=-26x^2+11x-9$

55. $-5(x^2-3x+5)+3(2x^2-7x+2)=-5x^2+15x-25+6x^2-21x+6=x^2-6x-19$

56. $-3(4x^2-3x+2)+5(2x^2-x-9)=-12x^2+9x-6+10x^2-5x-45=-2x^2+4x-51$

57. $-3(2x^2-x-7)-4(x^2-6x+3)=-6x^2+3x+21-4x^2+24x-12=-10x^2+27x+9$

58. $-5(-4x^2+7x+1)-3(5x^2+x-6)=20x^2-35x-5-15x^2-3x+18=5x^2-38x+13$

59. $3(x^2+5xy+y^2)+4(x^2+7xy+y^2)=3x^2+15xy+3y^2+4x^2+28xy+4y^2=7x^2+43xy+7y^2$

60. $2(3x^2-5xy+y^2)+3(4x^2+2xy+7y^2)=6x^2-10xy+2y^2+12x^2+6xy+21y^2=$
$18x^2-4xy+23y^2$

61. $-5(5mn+7mp)-4(9mn-8mp)=-25mn-35mp-36mn+32mp=-61mn-3mp$

62. $8(3ab-6cd)-7(2ab-6cd)=24ab-48cd-14ab+42cd=10ab-6cd$

63. $-8(2ab-7mn)+4(5mn-4ab)=-16ab+56mn+20mn-16ab=-32ab+76mn$

64. $-6(2abc-4ef)+9(4abc+5ef)=-12abc+24ef+36abc+45ef=24abc+69ef$

65. $-2(x^3+5x^2-7x)+6(3x^3+x^2-5x)=-2x^3-10x^2+14x+18x^3+6x^2-30x=$
$16x^3-4x^2-16x$

66. $-3(2x^3+4x-7)-2(5x^2+6x+3)=-6x^3-12x+21-10x^2-12x-6=-6x^3-10x^2-24x+15$

67. $-4(3x^4-6x^2+4x)-2(4x^4-9x^2+8x)=-12x^4+24x^2-16x-8x^4+18x^2-16x=$
$-20x^4+44x^2-32x$

68. $-3(2x^5+4x^3-5x)-2(3x^5+2x^3+2x)=-6x^5-8x^3+15x-6x^5-4x^3-4x=$
$-12x^5-12x^3+11x$

69. $3(4x-5)+2(2x-7)-6(3x+4)=12x-12+4x-14-18x-24=-2x-50$

70. $-2(5x+1)-4(x-4)+3(2x+3)=-10x-2-4x+16+6x+9=9x+23$

71. $6(-3x+1)-4(2x-5)-3(7-2x)=-18x+6-8x+20-21+6x=-20x+5$

72. $-4(x^2+x)-7(3x+4)+5(2x^2+1)=-4x^2-4x-21x-28+10x^2+5=6x^2-25x-23$

73. $-5(4y-6)+3(2y^2-5)-4(3y^2+2y)=-20y+24+6y^2-15-12y^2-8y=$
$-6y^2-28y+9$

74. $2(3x^3+6x^2)-5(2x^2+x^3)+4(4x^3+5x^2)=6x^3+12x^2-10x^2-5x^3+16x^3+20x^2=$
$17x^3+22x^2$