

Three brackets

Whole number complex. (50 with no real component at end.)

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| 1. | $(2x - 1)(x + 5 + 6i)(x + 5 - 6i)$ | $(2x - 1)(x^2 + 10x + 61)$ | $2x^3 + 19x^2 + 112x - 61$ |
| 2. | $(3x - 4)(x - 8 + 1i)(x - 8 - 1i)$ | $(3x - 4)(x^2 - 16x + 65)$ | $3x^3 - 52x^2 + 259x - 260$ |
| 3. | $(3x + 2)(x + 10 + 8i)(x + 10 - 8i)$ | $(3x + 2)(x^2 + 20x + 164)$ | $3x^3 + 62x^2 + 532x + 328$ |
| 4. | $(3x + 2)(x - 10 + 10i)(x - 10 - 10i)$ | $(3x + 2)(x^2 - 20x + 200)$ | $3x^3 - 58x^2 + 560x + 400$ |
| 5. | $(2x - 1)(x - 4 + 9i)(x - 4 - 9i)$ | $(2x - 1)(x^2 - 8x + 97)$ | $2x^3 - 17x^2 + 202x - 97$ |
| 6. | $(3x - 5)(x - 5 + 9i)(x - 5 - 9i)$ | $(3x - 5)(x^2 - 10x + 106)$ | $3x^3 - 35x^2 + 368x - 530$ |
| 7. | $(2x - 5)(x - 2 + 8i)(x - 2 - 8i)$ | $(2x - 5)(x^2 - 4x + 68)$ | $2x^3 - 13x^2 + 156x - 340$ |
| 8. | $(x + 3)(x - 6 + 5i)(x - 6 - 5i)$ | $(x + 3)(x^2 - 12x + 61)$ | $x^3 - 9x^2 + 25x + 183$ |
| 9. | $(3x + 1)(x + 8 + 3i)(x + 8 - 3i)$ | $(3x + 1)(x^2 + 16x + 73)$ | $3x^3 + 49x^2 + 235x + 73$ |
| 10. | $(x - 2)(x + 7 + 1i)(x + 7 - 1i)$ | $(x - 2)(x^2 + 14x + 50)$ | $x^3 + 12x^2 + 22x - 100$ |
| 11. | $(3x - 2)(x + 3 + 10i)(x + 3 - 10i)$ | $(3x - 2)(x^2 + 6x + 109)$ | $3x^3 + 16x^2 + 315x - 218$ |
| 12. | $(x + 2)(x + 9 + 10i)(x + 9 - 10i)$ | $(x + 2)(x^2 + 18x + 181)$ | $x^3 + 20x^2 + 217x + 362$ |
| 13. | $(3x - 5)(x - 5 + 1i)(x - 5 - 1i)$ | $(3x - 5)(x^2 - 10x + 26)$ | $3x^3 - 35x^2 + 128x - 130$ |
| 14. | $(2x + 3)(x + 6 + 4i)(x + 6 - 4i)$ | $(2x + 3)(x^2 + 12x + 52)$ | $2x^3 + 27x^2 + 140x + 156$ |
| 15. | $(x - 2)(x + 6 + 10i)(x + 6 - 10i)$ | $(x - 2)(x^2 + 12x + 136)$ | $x^3 + 10x^2 + 112x - 272$ |
| 16. | $(x - 4)(x + 5 + 3i)(x + 5 - 3i)$ | $(x - 4)(x^2 + 10x + 34)$ | $x^3 + 6x^2 - 6x - 136$ |
| 17. | $(3x - 5)(x - 7 + 10i)(x - 7 - 10i)$ | $(3x - 5)(x^2 - 14x + 149)$ | $3x^3 - 47x^2 + 517x - 745$ |
| 18. | $(x + 5)(x + 8 + 5i)(x + 8 - 5i)$ | $(x + 5)(x^2 + 16x + 89)$ | $x^3 + 21x^2 + 169x + 445$ |
| 19. | $(x + 2)(x - 10 + 3i)(x - 10 - 3i)$ | $(x + 2)(x^2 - 20x + 109)$ | $x^3 - 18x^2 + 69x + 218$ |
| 20. | $(3x + 1)(x + 8 + 4i)(x + 8 - 4i)$ | $(3x + 1)(x^2 + 16x + 80)$ | $3x^3 + 49x^2 + 256x + 80$ |
| 21. | $(2x + 7)(x + 10 + 1i)(x + 10 - 1i)$ | $(2x + 7)(x^2 + 20x + 101)$ | $2x^3 + 47x^2 + 342x + 707$ |
| 22. | $(x - 1)(x - 3 + 2i)(x - 3 - 2i)$ | $(x - 1)(x^2 - 6x + 13)$ | $x^3 - 7x^2 + 19x - 13$ |
| 23. | $(3x - 5)(x + 4 + 3i)(x + 4 - 3i)$ | $(3x - 5)(x^2 + 8x + 25)$ | $3x^3 + 19x^2 + 35x - 125$ |
| 24. | $(x - 4)(x + 2 + 4i)(x + 2 - 4i)$ | $(x - 4)(x^2 + 4x + 20)$ | $x^3 + 4x - 80$ |
| 25. | $(x + 2)(x + 10 + 1i)(x + 10 - 1i)$ | $(x + 2)(x^2 + 20x + 101)$ | $x^3 + 22x^2 + 141x + 202$ |
| 26. | $(2x + 5)(x + 3 + 5i)(x + 3 - 5i)$ | $(2x + 5)(x^2 + 6x + 34)$ | $2x^3 + 17x^2 + 98x + 170$ |
| 27. | $(2x + 1)(x - 7 + 5i)(x - 7 - 5i)$ | $(2x + 1)(x^2 - 14x + 74)$ | $2x^3 - 27x^2 + 134x + 74$ |
| 28. | $(3x - 4)(x - 6 + 7i)(x - 6 - 7i)$ | $(3x - 4)(x^2 - 12x + 85)$ | $3x^3 - 40x^2 + 303x - 340$ |
| 29. | $(3x - 1)(x + 5 + 1i)(x + 5 - 1i)$ | $(3x - 1)(x^2 + 10x + 26)$ | $3x^3 + 29x^2 + 68x - 26$ |
| 30. | $(x - 4)(x + 9 + 3i)(x + 9 - 3i)$ | $(x - 4)(x^2 + 18x + 90)$ | $x^3 + 14x^2 + 18x - 360$ |
| 31. | $(x - 2)(x - 6 + 10i)(x - 6 - 10i)$ | $(x - 2)(x^2 - 12x + 136)$ | $x^3 - 14x^2 + 160x - 272$ |
| 32. | $(3x + 2)(x + 2 + 7i)(x + 2 - 7i)$ | $(3x + 2)(x^2 + 4x + 53)$ | $3x^3 + 14x^2 + 167x + 106$ |
| 33. | $(x + 1)(x + 1 + 6i)(x + 1 - 6i)$ | $(x + 1)(x^2 + 2x + 37)$ | $x^3 + 3x^2 + 39x + 37$ |
| 34. | $(2x - 5)(x + 5 + 7i)(x + 5 - 7i)$ | $(2x - 5)(x^2 + 10x + 74)$ | $2x^3 + 15x^2 + 98x - 370$ |

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| 35. | $(x + 5)(x - 5 + 2i)(x - 5 - 2i)$ | $(x + 5)(x^2 - 10x + 29)$ | $x^3 - 5x^2 - 21x + 145$ |
| 36. | $(3x + 4)(x - 3 + 9i)(x - 3 - 9i)$ | $(3x + 4)(x^2 - 6x + 90)$ | $3x^3 - 14x^2 + 246x + 360$ |
| 37. | $(x + 5)(x + 1 + 1i)(x + 1 - 1i)$ | $(x + 5)(x^2 + 2x + 2)$ | $x^3 + 7x^2 + 12x + 10$ |
| 38. | $(x - 2)(x + 7 + 6i)(x + 7 - 6i)$ | $(x - 2)(x^2 + 14x + 85)$ | $x^3 + 12x^2 + 57x - 170$ |
| 39. | $(x + 7)(x - 2 + 5i)(x - 2 - 5i)$ | $(x + 7)(x^2 - 4x + 29)$ | $x^3 + 3x^2 + x + 203$ |
| 40. | $(2x + 1)(x - 7 + 7i)(x - 7 - 7i)$ | $(2x + 1)(x^2 - 14x + 98)$ | $2x^3 - 27x^2 + 182x + 98$ |
| 41. | $(x + 1)(x + 4 + 8i)(x + 4 - 8i)$ | $(x + 1)(x^2 + 8x + 80)$ | $x^3 + 9x^2 + 88x + 80$ |
| 42. | $(x + 4)(x - 9 + 8i)(x - 9 - 8i)$ | $(x + 4)(x^2 - 18x + 145)$ | $x^3 - 14x^2 + 73x + 580$ |
| 43. | $(3x - 5)(x - 6 + 2i)(x - 6 - 2i)$ | $(3x - 5)(x^2 - 12x + 40)$ | $3x^3 - 41x^2 + 180x - 200$ |
| 44. | $(x - 4)(x - 5 + 2i)(x - 5 - 2i)$ | $(x - 4)(x^2 - 10x + 29)$ | $x^3 - 14x^2 + 69x - 116$ |
| 45. | $(x + 2)(x - 5 + 10i)(x - 5 - 10i)$ | $(x + 2)(x^2 - 10x + 125)$ | $x^3 - 8x^2 + 105x + 250$ |
| 46. | $(3x - 4)(x - 2 + 8i)(x - 2 - 8i)$ | $(3x - 4)(x^2 - 4x + 68)$ | $3x^3 - 16x^2 + 220x - 272$ |
| 47. | $(3x + 5)(x + 3 + 3i)(x + 3 - 3i)$ | $(3x + 5)(x^2 + 6x + 18)$ | $3x^3 + 23x^2 + 84x + 90$ |
| 48. | $(x - 2)(x - 6 + 8i)(x - 6 - 8i)$ | $(x - 2)(x^2 - 12x + 100)$ | $x^3 - 14x^2 + 124x - 200$ |
| 49. | $(x + 6)(x + 5 + 8i)(x + 5 - 8i)$ | $(x + 6)(x^2 + 10x + 89)$ | $x^3 + 16x^2 + 149x + 534$ |
| 50. | $(3x - 2)(x + 5 + 10i)(x + 5 - 10i)$ | $(3x - 2)(x^2 + 10x + 125)$ | $3x^3 + 28x^2 + 355x - 250$ |
| 51. | $(x + 6)(x + 2 + 5i)(x + 2 - 5i)$ | $(x + 6)(x^2 + 4x + 29)$ | $x^3 + 10x^2 + 53x + 174$ |
| 52. | $(2x + 7)(x + 1 + 5i)(x + 1 - 5i)$ | $(2x + 7)(x^2 + 2x + 26)$ | $2x^3 + 11x^2 + 66x + 182$ |
| 53. | $(3x - 5)(x + 10 + 3i)(x + 10 - 3i)$ | $(3x - 5)(x^2 + 20x + 109)$ | $3x^3 + 55x^2 + 227x - 545$ |
| 54. | $(x - 4)(x - 1 + 4i)(x - 1 - 4i)$ | $(x - 4)(x^2 - 2x + 17)$ | $x^3 - 6x^2 + 25x - 68$ |
| 55. | $(3x - 2)(x - 1 + 4i)(x - 1 - 4i)$ | $(3x - 2)(x^2 - 2x + 17)$ | $3x^3 - 8x^2 + 55x - 34$ |
| 56. | $(x + 4)(x + 2 + 9i)(x + 2 - 9i)$ | $(x + 4)(x^2 + 4x + 85)$ | $x^3 + 8x^2 + 101x + 340$ |
| 57. | $(x - 1)(x - 3 + 7i)(x - 3 - 7i)$ | $(x - 1)(x^2 - 6x + 58)$ | $x^3 - 7x^2 + 64x - 58$ |
| 58. | $(x + 6)(x + 8 + 2i)(x + 8 - 2i)$ | $(x + 6)(x^2 + 16x + 68)$ | $x^3 + 22x^2 + 164x + 408$ |
| 59. | $(x - 4)(x - 5 + 1i)(x - 5 - 1i)$ | $(x - 4)(x^2 - 10x + 26)$ | $x^3 - 14x^2 + 66x - 104$ |
| 60. | $(2x + 5)(x - 8 + 1i)(x - 8 - 1i)$ | $(2x + 5)(x^2 - 16x + 65)$ | $2x^3 - 27x^2 + 50x + 325$ |
| 61. | $(3x - 5)(x + 2 + 10i)(x + 2 - 10i)$ | $(3x - 5)(x^2 + 4x + 104)$ | $3x^3 + 7x^2 + 292x - 520$ |
| 62. | $(x + 3)(x - 5 + 8i)(x - 5 - 8i)$ | $(x + 3)(x^2 - 10x + 89)$ | $x^3 - 7x^2 + 59x + 267$ |
| 63. | $(x + 3)(x + 5 + 3i)(x + 5 - 3i)$ | $(x + 3)(x^2 + 10x + 34)$ | $x^3 + 13x^2 + 64x + 102$ |
| 64. | $(3x - 5)(x - 5 + 9i)(x - 5 - 9i)$ | $(3x - 5)(x^2 - 10x + 106)$ | $3x^3 - 35x^2 + 368x - 530$ |
| 65. | $(x - 3)(x + 4 + 4i)(x + 4 - 4i)$ | $(x - 3)(x^2 + 8x + 32)$ | $x^3 + 5x^2 + 8x - 96$ |
| 66. | $(x + 5)(x + 10 + 8i)(x + 10 - 8i)$ | $(x + 5)(x^2 + 20x + 164)$ | $x^3 + 25x^2 + 264x + 820$ |
| 67. | $(3x + 7)(x - 7 + 10i)(x - 7 - 10i)$ | $(3x + 7)(x^2 - 14x + 149)$ | $3x^3 - 35x^2 + 349x + 1043$ |
| 68. | $(3x - 5)(x - 5 + 9i)(x - 5 - 9i)$ | $(3x - 5)(x^2 - 10x + 106)$ | $3x^3 - 35x^2 + 368x - 530$ |
| 69. | $(3x + 5)(x - 3 + 3i)(x - 3 - 3i)$ | $(3x + 5)(x^2 - 6x + 18)$ | $3x^3 - 13x^2 + 24x + 90$ |
| 70. | $(x + 3)(x - 10 + 10i)(x - 10 - 10i)$ | $(x + 3)(x^2 - 20x + 200)$ | $x^3 - 17x^2 + 140x + 600$ |
| 71. | $(x + 1)(x - 9 + 5i)(x - 9 - 5i)$ | $(x + 1)(x^2 - 18x + 106)$ | $x^3 - 17x^2 + 88x + 106$ |

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| 72. | $(2x + 7)(x + 5 + 3i)(x + 5 - 3i)$ | $(2x + 7)(x^2 + 10x + 34)$ | $2x^3 + 27x^2 + 138x + 238$ |
| 73. | $(2x + 7)(x - 6 + 8i)(x - 6 - 8i)$ | $(2x + 7)(x^2 - 12x + 100)$ | $2x^3 - 17x^2 + 116x + 700$ |
| 74. | $(3x + 1)(x + 4 + 5i)(x + 4 - 5i)$ | $(3x + 1)(x^2 + 8x + 41)$ | $3x^3 + 25x^2 + 131x + 41$ |
| 75. | $(x - 4)(x + 5 + 6i)(x + 5 - 6i)$ | $(x - 4)(x^2 + 10x + 61)$ | $x^3 + 6x^2 + 21x - 244$ |
| 76. | $(x - 1)(x + 10 + 9i)(x + 10 - 9i)$ | $(x - 1)(x^2 + 20x + 181)$ | $x^3 + 19x^2 + 161x - 181$ |
| 77. | $(3x - 2)(x + 2 + 10i)(x + 2 - 10i)$ | $(3x - 2)(x^2 + 4x + 104)$ | $3x^3 + 10x^2 + 304x - 208$ |
| 78. | $(x - 2)(x + 4 + 2i)(x + 4 - 2i)$ | $(x - 2)(x^2 + 8x + 20)$ | $x^3 + 6x^2 + 4x - 40$ |
| 79. | $(2x + 1)(x - 1 + 6i)(x - 1 - 6i)$ | $(2x + 1)(x^2 - 2x + 37)$ | $2x^3 - 3x^2 + 72x + 37$ |
| 80. | $(x + 1)(x + 4 + 3i)(x + 4 - 3i)$ | $(x + 1)(x^2 + 8x + 25)$ | $x^3 + 9x^2 + 33x + 25$ |
| 81. | $(2x - 1)(x + 7 + 9i)(x + 7 - 9i)$ | $(2x - 1)(x^2 + 14x + 130)$ | $2x^3 + 27x^2 + 246x - 130$ |
| 82. | $(x + 4)(x + 1 + 1i)(x + 1 - 1i)$ | $(x + 4)(x^2 + 2x + 2)$ | $x^3 + 6x^2 + 10x + 8$ |
| 83. | $(2x + 3)(x + 7 + 6i)(x + 7 - 6i)$ | $(2x + 3)(x^2 + 14x + 85)$ | $2x^3 + 31x^2 + 212x + 255$ |
| 84. | $(3x - 4)(x - 5 + 2i)(x - 5 - 2i)$ | $(3x - 4)(x^2 - 10x + 29)$ | $3x^3 - 34x^2 + 127x - 116$ |
| 85. | $(x - 5)(x - 1 + 8i)(x - 1 - 8i)$ | $(x - 5)(x^2 - 2x + 65)$ | $x^3 - 7x^2 + 75x - 325$ |
| 86. | $(2x + 7)(x + 4 + 4i)(x + 4 - 4i)$ | $(2x + 7)(x^2 + 8x + 32)$ | $2x^3 + 23x^2 + 120x + 224$ |
| 87. | $(x - 5)(x - 9 + 10i)(x - 9 - 10i)$ | $(x - 5)(x^2 - 18x + 181)$ | $x^3 - 23x^2 + 271x - 905$ |
| 88. | $(3x + 5)(x + 7 + 2i)(x + 7 - 2i)$ | $(3x + 5)(x^2 + 14x + 53)$ | $3x^3 + 47x^2 + 229x + 265$ |
| 89. | $(x - 4)(x + 4 + 10i)(x + 4 - 10i)$ | $(x - 4)(x^2 + 8x + 116)$ | $x^3 + 4x^2 + 84x - 464$ |
| 90. | $(3x - 5)(x - 5 + 3i)(x - 5 - 3i)$ | $(3x - 5)(x^2 - 10x + 34)$ | $3x^3 - 35x^2 + 152x - 170$ |
| 91. | $(3x + 7)(x - 10 + 5i)(x - 10 - 5i)$ | $(3x + 7)(x^2 - 20x + 125)$ | $3x^3 - 53x^2 + 235x + 875$ |
| 92. | $(x - 2)(x - 7 + 2i)(x - 7 - 2i)$ | $(x - 2)(x^2 - 14x + 53)$ | $x^3 - 16x^2 + 81x - 106$ |
| 93. | $(3x + 7)(x - 9 + 7i)(x - 9 - 7i)$ | $(3x + 7)(x^2 - 18x + 130)$ | $3x^3 - 47x^2 + 264x + 910$ |
| 94. | $(x + 7)(x + 5 + 8i)(x + 5 - 8i)$ | $(x + 7)(x^2 + 10x + 89)$ | $x^3 + 17x^2 + 159x + 623$ |
| 95. | $(3x + 2)(x - 6 + 3i)(x - 6 - 3i)$ | $(3x + 2)(x^2 - 12x + 45)$ | $3x^3 - 34x^2 + 111x + 90$ |
| 96. | $(x + 4)(x - 1 + 7i)(x - 1 - 7i)$ | $(x + 4)(x^2 - 2x + 50)$ | $x^3 + 2x^2 + 42x + 200$ |
| 97. | $(x + 1)(x - 2 + 9i)(x - 2 - 9i)$ | $(x + 1)(x^2 - 4x + 85)$ | $x^3 - 3x^2 + 81x + 85$ |
| 98. | $(x + 6)(x - 4 + 3i)(x - 4 - 3i)$ | $(x + 6)(x^2 - 8x + 25)$ | $x^3 - 2x^2 - 23x + 150$ |
| 99. | $(3x + 5)(x - 6 + 2i)(x - 6 - 2i)$ | $(3x + 5)(x^2 - 12x + 40)$ | $3x^3 - 31x^2 + 60x + 200$ |
| 100. | $(x + 2)(x + 3 + 4i)(x + 3 - 4i)$ | $(x + 2)(x^2 + 6x + 25)$ | $x^3 + 8x^2 + 37x + 50$ |
| 101. | $(3x - 2)(x - 7 + 5i)(x - 7 - 5i)$ | $(3x - 2)(x^2 - 14x + 74)$ | $3x^3 - 44x^2 + 250x - 148$ |
| 102. | $(2x + 7)(x - 3 + 1i)(x - 3 - 1i)$ | $(2x + 7)(x^2 - 6x + 10)$ | $2x^3 - 5x^2 - 22x + 70$ |
| 103. | $(3x - 4)(x + 10 + 7i)(x + 10 - 7i)$ | $(3x - 4)(x^2 + 20x + 149)$ | $3x^3 + 56x^2 + 367x - 596$ |
| 104. | $(2x + 5)(x - 4 + 2i)(x - 4 - 2i)$ | $(2x + 5)(x^2 - 8x + 20)$ | $2x^3 - 11x^2 + 100$ |
| 105. | $(x + 1)(x + 8 + 9i)(x + 8 - 9i)$ | $(x + 1)(x^2 + 16x + 145)$ | $x^3 + 17x^2 + 161x + 145$ |
| 106. | $(3x + 5)(x + 8 + 5i)(x + 8 - 5i)$ | $(3x + 5)(x^2 + 16x + 89)$ | $3x^3 + 53x^2 + 347x + 445$ |
| 107. | $(x + 3)(x - 3 + 3i)(x - 3 - 3i)$ | $(x + 3)(x^2 - 6x + 18)$ | $x^3 - 3x^2 + 54$ |
| 108. | $(2x + 3)(x + 10 + 10i)(x + 10 - 10i)$ | $(2x + 3)(x^2 + 20x + 200)$ | $2x^3 + 43x^2 + 460x + 600$ |

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| 109. | $(3x - 5)(x + 8 + 6i)(x + 8 - 6i)$ | $(3x - 5)(x^2 + 16x + 100)$ | $3x^3 + 43x^2 + 220x - 500$ |
| 110. | $(x + 5)(x + 4 + 5i)(x + 4 - 5i)$ | $(x + 5)(x^2 + 8x + 41)$ | $x^3 + 13x^2 + 81x + 205$ |
| 111. | $(2x + 3)(x + 4 + 2i)(x + 4 - 2i)$ | $(2x + 3)(x^2 + 8x + 20)$ | $2x^3 + 19x^2 + 64x + 60$ |
| 112. | $(3x - 2)(x - 2 + 7i)(x - 2 - 7i)$ | $(3x - 2)(x^2 - 4x + 53)$ | $3x^3 - 14x^2 + 167x - 106$ |
| 113. | $(x + 4)(x + 10 + 2i)(x + 10 - 2i)$ | $(x + 4)(x^2 + 20x + 104)$ | $x^3 + 24x^2 + 184x + 416$ |
| 114. | $(3x + 4)(x + 9 + 6i)(x + 9 - 6i)$ | $(3x + 4)(x^2 + 18x + 117)$ | $3x^3 + 58x^2 + 423x + 468$ |
| 115. | $(3x + 5)(x - 7 + 1i)(x - 7 - 1i)$ | $(3x + 5)(x^2 - 14x + 50)$ | $3x^3 - 37x^2 + 80x + 250$ |
| 116. | $(x + 2)(x - 2 + 4i)(x - 2 - 4i)$ | $(x + 2)(x^2 - 4x + 20)$ | $x^3 - 2x^2 + 12x + 40$ |
| 117. | $(2x - 5)(x - 6 + 7i)(x - 6 - 7i)$ | $(2x - 5)(x^2 - 12x + 85)$ | $2x^3 - 29x^2 + 230x - 425$ |
| 118. | $(2x + 7)(x + 1 + 4i)(x + 1 - 4i)$ | $(2x + 7)(x^2 + 2x + 17)$ | $2x^3 + 11x^2 + 48x + 119$ |
| 119. | $(3x + 1)(x - 6 + 9i)(x - 6 - 9i)$ | $(3x + 1)(x^2 - 12x + 117)$ | $3x^3 - 35x^2 + 339x + 117$ |
| 120. | $(2x + 7)(x - 10 + 1i)(x - 10 - 1i)$ | $(2x + 7)(x^2 - 20x + 101)$ | $2x^3 - 33x^2 + 62x + 707$ |
| 121. | $(3x + 7)(x + 4 + 3i)(x + 4 - 3i)$ | $(3x + 7)(x^2 + 8x + 25)$ | $3x^3 + 31x^2 + 131x + 175$ |
| 122. | $(3x - 2)(x - 4 + 2i)(x - 4 - 2i)$ | $(3x - 2)(x^2 - 8x + 20)$ | $3x^3 - 26x^2 + 76x - 40$ |
| 123. | $(x - 5)(x + 3 + 6i)(x + 3 - 6i)$ | $(x - 5)(x^2 + 6x + 45)$ | $x^3 + x^2 + 15x - 225$ |
| 124. | $(3x + 7)(x - 2 + 2i)(x - 2 - 2i)$ | $(3x + 7)(x^2 - 4x + 8)$ | $3x^3 - 5x^2 - 4x + 56$ |
| 125. | $(x - 2)(x + 3 + 2i)(x + 3 - 2i)$ | $(x - 2)(x^2 + 6x + 13)$ | $x^3 + 4x^2 + x - 26$ |
| 126. | $(x + 6)(x - 10 + 7i)(x - 10 - 7i)$ | $(x + 6)(x^2 - 20x + 149)$ | $x^3 - 14x^2 + 29x + 894$ |
| 127. | $(2x + 1)(x + 6 + 10i)(x + 6 - 10i)$ | $(2x + 1)(x^2 + 12x + 136)$ | $2x^3 + 25x^2 + 284x + 136$ |
| 128. | $(x + 1)(x + 7 + 1i)(x + 7 - 1i)$ | $(x + 1)(x^2 + 14x + 50)$ | $x^3 + 15x^2 + 64x + 50$ |
| 129. | $(x - 2)(x - 4 + 7i)(x - 4 - 7i)$ | $(x - 2)(x^2 - 8x + 65)$ | $x^3 - 10x^2 + 81x - 130$ |
| 130. | $(3x - 4)(x + 8 + 3i)(x + 8 - 3i)$ | $(3x - 4)(x^2 + 16x + 73)$ | $3x^3 + 44x^2 + 155x - 292$ |
| 131. | $(2x - 3)(x - 10 + 8i)(x - 10 - 8i)$ | $(2x - 3)(x^2 - 20x + 164)$ | $2x^3 - 43x^2 + 388x - 492$ |
| 132. | $(2x - 1)(x - 1 + 9i)(x - 1 - 9i)$ | $(2x - 1)(x^2 - 2x + 82)$ | $2x^3 - 5x^2 + 166x - 82$ |
| 133. | $(x + 2)(x + 4 + 1i)(x + 4 - 1i)$ | $(x + 2)(x^2 + 8x + 17)$ | $x^3 + 10x^2 + 33x + 34$ |
| 134. | $(3x - 1)(x + 5 + 2i)(x + 5 - 2i)$ | $(3x - 1)(x^2 + 10x + 29)$ | $3x^3 + 29x^2 + 77x - 29$ |
| 135. | $(x - 1)(x - 7 + 6i)(x - 7 - 6i)$ | $(x - 1)(x^2 - 14x + 85)$ | $x^3 - 15x^2 + 99x - 85$ |
| 136. | $(3x - 1)(x - 9 + 2i)(x - 9 - 2i)$ | $(3x - 1)(x^2 - 18x + 85)$ | $3x^3 - 55x^2 + 273x - 85$ |
| 137. | $(3x + 4)(x - 2 + 1i)(x - 2 - 1i)$ | $(3x + 4)(x^2 - 4x + 5)$ | $3x^3 - 8x^2 - x + 20$ |
| 138. | $(3x + 4)(x - 9 + 4i)(x - 9 - 4i)$ | $(3x + 4)(x^2 - 18x + 97)$ | $3x^3 - 50x^2 + 219x + 388$ |
| 139. | $(3x + 2)(x + 10 + 10i)(x + 10 - 10i)$ | $(3x + 2)(x^2 + 20x + 200)$ | $3x^3 + 62x^2 + 640x + 400$ |
| 140. | $(x + 4)(x - 2 + 7i)(x - 2 - 7i)$ | $(x + 4)(x^2 - 4x + 53)$ | $x^3 + 37x + 212$ |
| 141. | $(x - 3)(x - 5 + 9i)(x - 5 - 9i)$ | $(x - 3)(x^2 - 10x + 106)$ | $x^3 - 13x^2 + 136x - 318$ |
| 142. | $(3x + 1)(x - 3 + 6i)(x - 3 - 6i)$ | $(3x + 1)(x^2 - 6x + 45)$ | $3x^3 - 17x^2 + 129x + 45$ |
| 143. | $(x - 3)(x + 3 + 4i)(x + 3 - 4i)$ | $(x - 3)(x^2 + 6x + 25)$ | $x^3 + 3x^2 + 7x - 75$ |
| 144. | $(x + 5)(x + 5 + 3i)(x + 5 - 3i)$ | $(x + 5)(x^2 + 10x + 34)$ | $x^3 + 15x^2 + 84x + 170$ |
| 145. | $(x + 5)(x - 7 + 1i)(x - 7 - 1i)$ | $(x + 5)(x^2 - 14x + 50)$ | $x^3 - 9x^2 - 20x + 250$ |

146.	$(x - 2)(x + 9 + 3i)(x + 9 - 3i)$	$(x - 2)(x^2 + 18x + 90)$	$x^3 + 16x^2 + 54x - 180$
147.	$(3x + 7)(x - 10 + 10i)(x - 10 - 10i)$	$(3x + 7)(x^2 - 20x + 200)$	$3x^3 - 53x^2 + 460x + 1400$
148.	$(x + 4)(x - 7 + 1i)(x - 7 - 1i)$	$(x + 4)(x^2 - 14x + 50)$	$x^3 - 10x^2 - 6x + 200$
149.	$(3x - 1)(x + 3 + 6i)(x + 3 - 6i)$	$(3x - 1)(x^2 + 6x + 45)$	$3x^3 + 17x^2 + 129x - 45$
150.	$(3x - 2)(x - 4 + 9i)(x - 4 - 9i)$	$(3x - 2)(x^2 - 8x + 97)$	$3x^3 - 26x^2 + 307x - 194$
151.	$(x - 3)(x + 5 + 8i)(x + 5 - 8i)$	$(x - 3)(x^2 + 10x + 89)$	$x^3 + 7x^2 + 59x - 267$
152.	$(2x + 3)(x - 7 + 6i)(x - 7 - 6i)$	$(2x + 3)(x^2 - 14x + 85)$	$2x^3 - 25x^2 + 128x + 255$
153.	$(3x + 4)(x - 10 + 6i)(x - 10 - 6i)$	$(3x + 4)(x^2 - 20x + 136)$	$3x^3 - 56x^2 + 328x + 544$
154.	$(2x - 3)(x + 4 + 7i)(x + 4 - 7i)$	$(2x - 3)(x^2 + 8x + 65)$	$2x^3 + 13x^2 + 106x - 195$
155.	$(3x - 2)(x - 2 + 9i)(x - 2 - 9i)$	$(3x - 2)(x^2 - 4x + 85)$	$3x^3 - 14x^2 + 263x - 170$
156.	$(x + 6)(x - 4 + 1i)(x - 4 - 1i)$	$(x + 6)(x^2 - 8x + 17)$	$x^3 - 2x^2 - 31x + 102$
157.	$(x - 2)(x + 4 + 2i)(x + 4 - 2i)$	$(x - 2)(x^2 + 8x + 20)$	$x^3 + 6x^2 + 4x - 40$
158.	$(x - 1)(x - 4 + 10i)(x - 4 - 10i)$	$(x - 1)(x^2 - 8x + 116)$	$x^3 - 9x^2 + 124x - 116$
159.	$(2x - 3)(x - 10 + 9i)(x - 10 - 9i)$	$(2x - 3)(x^2 - 20x + 181)$	$2x^3 - 43x^2 + 422x - 543$
160.	$(2x - 3)(x - 3 + 10i)(x - 3 - 10i)$	$(2x - 3)(x^2 - 6x + 109)$	$2x^3 - 15x^2 + 236x - 327$
161.	$(2x - 3)(x - 9 + 10i)(x - 9 - 10i)$	$(2x - 3)(x^2 - 18x + 181)$	$2x^3 - 39x^2 + 416x - 543$
162.	$(3x - 1)(x - 8 + 3i)(x - 8 - 3i)$	$(3x - 1)(x^2 - 16x + 73)$	$3x^3 - 49x^2 + 235x - 73$
163.	$(x - 5)(x + 1 + 2i)(x + 1 - 2i)$	$(x - 5)(x^2 + 2x + 5)$	$x^3 - 3x^2 - 5x - 25$
164.	$(3x + 5)(x - 5 + 10i)(x - 5 - 10i)$	$(3x + 5)(x^2 - 10x + 125)$	$3x^3 - 25x^2 + 325x + 625$
165.	$(2x - 1)(x - 5 + 6i)(x - 5 - 6i)$	$(2x - 1)(x^2 - 10x + 61)$	$2x^3 - 21x^2 + 132x - 61$
166.	$(2x + 1)(x - 9 + 6i)(x - 9 - 6i)$	$(2x + 1)(x^2 - 18x + 117)$	$2x^3 - 35x^2 + 216x + 117$
167.	$(3x + 5)(x + 8 + 5i)(x + 8 - 5i)$	$(3x + 5)(x^2 + 16x + 89)$	$3x^3 + 53x^2 + 347x + 445$
168.	$(2x + 7)(x - 3 + 3i)(x - 3 - 3i)$	$(2x + 7)(x^2 - 6x + 18)$	$2x^3 - 5x^2 - 6x + 126$
169.	$(x + 4)(x + 5 + 4i)(x + 5 - 4i)$	$(x + 4)(x^2 + 10x + 41)$	$x^3 + 14x^2 + 81x + 164$
170.	$(x + 6)(x - 3 + 4i)(x - 3 - 4i)$	$(x + 6)(x^2 - 6x + 25)$	$x^3 - 11x + 150$
171.	$(x + 1)(x + 6 + 4i)(x + 6 - 4i)$	$(x + 1)(x^2 + 12x + 52)$	$x^3 + 13x^2 + 64x + 52$
172.	$(x + 4)(x + 3 + 1i)(x + 3 - 1i)$	$(x + 4)(x^2 + 6x + 10)$	$x^3 + 10x^2 + 34x + 40$
173.	$(x + 4)(x + 8 + 2i)(x + 8 - 2i)$	$(x + 4)(x^2 + 16x + 68)$	$x^3 + 20x^2 + 132x + 272$
174.	$(x + 3)(x - 1 + 5i)(x - 1 - 5i)$	$(x + 3)(x^2 - 2x + 26)$	$x^3 + x^2 + 20x + 78$
175.	$(3x - 5)(x - 5 + 7i)(x - 5 - 7i)$	$(3x - 5)(x^2 - 10x + 74)$	$3x^3 - 35x^2 + 272x - 370$
176.	$(2x - 5)(x - 1 + 7i)(x - 1 - 7i)$	$(2x - 5)(x^2 - 2x + 50)$	$2x^3 - 9x^2 + 110x - 250$
177.	$(2x + 5)(x + 5 + 10i)(x + 5 - 10i)$	$(2x + 5)(x^2 + 10x + 125)$	$2x^3 + 25x^2 + 300x + 625$
178.	$(x + 1)(x + 8 + 8i)(x + 8 - 8i)$	$(x + 1)(x^2 + 16x + 128)$	$x^3 + 17x^2 + 144x + 128$
179.	$(2x - 3)(x - 5 + 6i)(x - 5 - 6i)$	$(2x - 3)(x^2 - 10x + 61)$	$2x^3 - 23x^2 + 152x - 183$
180.	$(2x - 5)(x + 6 + 10i)(x + 6 - 10i)$	$(2x - 5)(x^2 + 12x + 136)$	$2x^3 + 19x^2 + 212x - 680$
181.	$(x + 5)(x - 7 + 2i)(x - 7 - 2i)$	$(x + 5)(x^2 - 14x + 53)$	$x^3 - 9x^2 - 17x + 265$
182.	$(x - 4)(x + 2 + 5i)(x + 2 - 5i)$	$(x - 4)(x^2 + 4x + 29)$	$x^3 + 13x - 116$

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|------|-------------------------------------|-----------------------------|-----------------------------|
| 183. | $(3x + 7)(x - 3 + 3i)(x - 3 - 3i)$ | $(3x + 7)(x^2 - 6x + 18)$ | $3x^3 - 11x^2 + 12x + 126$ |
| 184. | $(2x + 1)(x - 2 + 3i)(x - 2 - 3i)$ | $(2x + 1)(x^2 - 4x + 13)$ | $2x^3 - 7x^2 + 22x + 13$ |
| 185. | $(x - 1)(x + 5 + 6i)(x + 5 - 6i)$ | $(x - 1)(x^2 + 10x + 61)$ | $x^3 + 9x^2 + 51x - 61$ |
| 186. | $(2x + 5)(x + 6 + 9i)(x + 6 - 9i)$ | $(2x + 5)(x^2 + 12x + 117)$ | $2x^3 + 29x^2 + 294x + 585$ |
| 187. | $(x - 4)(x - 7 + 2i)(x - 7 - 2i)$ | $(x - 4)(x^2 - 14x + 53)$ | $x^3 - 18x^2 + 109x - 212$ |
| 188. | $(x + 6)(x - 10 + 3i)(x - 10 - 3i)$ | $(x + 6)(x^2 - 20x + 109)$ | $x^3 - 14x^2 - 11x + 654$ |
| 189. | $(3x + 1)(x + 5 + 5i)(x + 5 - 5i)$ | $(3x + 1)(x^2 + 10x + 50)$ | $3x^3 + 31x^2 + 160x + 50$ |
| 190. | $(x - 4)(x - 2 + 2i)(x - 2 - 2i)$ | $(x - 4)(x^2 - 4x + 8)$ | $x^3 - 8x^2 + 24x - 32$ |
| 191. | $(x + 2)(x - 4 + 6i)(x - 4 - 6i)$ | $(x + 2)(x^2 - 8x + 52)$ | $x^3 - 6x^2 + 36x + 104$ |
| 192. | $(3x + 1)(x + 8 + 2i)(x + 8 - 2i)$ | $(3x + 1)(x^2 + 16x + 68)$ | $3x^3 + 49x^2 + 220x + 68$ |
| 193. | $(x + 1)(x + 10 + 5i)(x + 10 - 5i)$ | $(x + 1)(x^2 + 20x + 125)$ | $x^3 + 21x^2 + 145x + 125$ |
| 194. | $(x + 3)(x + 6 + 1i)(x + 6 - 1i)$ | $(x + 3)(x^2 + 12x + 37)$ | $x^3 + 15x^2 + 73x + 111$ |
| 195. | $(x + 4)(x + 3 + 6i)(x + 3 - 6i)$ | $(x + 4)(x^2 + 6x + 45)$ | $x^3 + 10x^2 + 69x + 180$ |
| 196. | $(x + 1)(x + 3 + 9i)(x + 3 - 9i)$ | $(x + 1)(x^2 + 6x + 90)$ | $x^3 + 7x^2 + 96x + 90$ |
| 197. | $(x - 1)(x + 3 + 3i)(x + 3 - 3i)$ | $(x - 1)(x^2 + 6x + 18)$ | $x^3 + 5x^2 + 12x - 18$ |
| 198. | $(x - 3)(x + 3 + 2i)(x + 3 - 2i)$ | $(x - 3)(x^2 + 6x + 13)$ | $x^3 + 3x^2 - 5x - 39$ |
| 199. | $(x + 5)(x + 1 + 1i)(x + 1 - 1i)$ | $(x + 5)(x^2 + 2x + 2)$ | $x^3 + 7x^2 + 12x + 10$ |
| 200. | $(2x - 3)(x - 2 + 9i)(x - 2 - 9i)$ | $(2x - 3)(x^2 - 4x + 85)$ | $2x^3 - 11x^2 + 182x - 255$ |
| 201. | $(2x + 7)(x + 5i)(x - 5i)$ | $(2x + 7)(x^2 + 25)$ | $2x^3 + 7x^2 + 50x + 175$ |
| 202. | $(3x + 4)(x + 2i)(x - 2i)$ | $(3x + 4)(x^2 + 4)$ | $3x^3 + 4x^2 + 12x + 16$ |
| 203. | $(x + 2)(x + 8i)(x - 8i)$ | $(x + 2)(x^2 + 64)$ | $x^3 + 2x^2 + 64x + 128$ |
| 204. | $(x + 6)(x + 8i)(x - 8i)$ | $(x + 6)(x^2 + 64)$ | $x^3 + 6x^2 + 64x + 384$ |
| 205. | $(2x + 3)(x + 8i)(x - 8i)$ | $(2x + 3)(x^2 + 64)$ | $2x^3 + 3x^2 + 128x + 192$ |
| 206. | $(3x + 1)(x + 3i)(x - 3i)$ | $(3x + 1)(x^2 + 9)$ | $3x^3 + x^2 + 27x + 9$ |
| 207. | $(x + 2)(x + 4i)(x - 4i)$ | $(x + 2)(x^2 + 16)$ | $x^3 + 2x^2 + 16x + 32$ |
| 208. | $(3x + 4)(x + 9i)(x - 9i)$ | $(3x + 4)(x^2 + 81)$ | $3x^3 + 4x^2 + 243x + 324$ |
| 209. | $(x + 1)(x + 10i)(x - 10i)$ | $(x + 1)(x^2 + 100)$ | $x^3 + x^2 + 100x + 100$ |
| 210. | $(2x - 3)(x + 1i)(x - 1i)$ | $(2x - 3)(x^2 + 1)$ | $2x^3 - 3x^2 + 2x - 3$ |
| 211. | $(2x + 1)(x + 4i)(x - 4i)$ | $(2x + 1)(x^2 + 16)$ | $2x^3 + x^2 + 32x + 16$ |
| 212. | $(x + 5)(x + 8i)(x - 8i)$ | $(x + 5)(x^2 + 64)$ | $x^3 + 5x^2 + 64x + 320$ |
| 213. | $(x - 2)(x + 8i)(x - 8i)$ | $(x - 2)(x^2 + 64)$ | $x^3 - 2x^2 + 64x - 128$ |
| 214. | $(2x + 7)(x + 9i)(x - 9i)$ | $(2x + 7)(x^2 + 81)$ | $2x^3 + 7x^2 + 162x + 567$ |
| 215. | $(x + 6)(x + 6i)(x - 6i)$ | $(x + 6)(x^2 + 36)$ | $x^3 + 6x^2 + 36x + 216$ |
| 216. | $(2x + 1)(x + 2i)(x - 2i)$ | $(2x + 1)(x^2 + 4)$ | $2x^3 + x^2 + 8x + 4$ |
| 217. | $(x + 7)(x + 9i)(x - 9i)$ | $(x + 7)(x^2 + 81)$ | $x^3 + 7x^2 + 81x + 567$ |
| 218. | $(x + 7)(x + 1i)(x - 1i)$ | $(x + 7)(x^2 + 1)$ | $x^3 + 7x^2 + x + 7$ |

219.	$(x - 5)(x + 3i)(x - 3i)$	$(x - 5)(x^2 + 9)$	$x^3 - 5x^2 + 9x - 45$
220.	$(x - 5)(x + 3i)(x - 3i)$	$(x - 5)(x^2 + 9)$	$x^3 - 5x^2 + 9x - 45$
221.	$(x + 2)(x + 9i)(x - 9i)$	$(x + 2)(x^2 + 81)$	$x^3 + 2x^2 + 81x + 162$
222.	$(x - 1)(x + 8i)(x - 8i)$	$(x - 1)(x^2 + 64)$	$x^3 - x^2 + 64x - 64$
223.	$(3x - 5)(x + 7i)(x - 7i)$	$(3x - 5)(x^2 + 49)$	$3x^3 - 5x^2 + 147x - 245$
224.	$(2x - 1)(x + 1i)(x - 1i)$	$(2x - 1)(x^2 + 1)$	$2x^3 - x^2 + 2x - 1$
225.	$(3x + 5)(x + 4i)(x - 4i)$	$(3x + 5)(x^2 + 16)$	$3x^3 + 5x^2 + 48x + 80$
226.	$(x + 6)(x + 2i)(x - 2i)$	$(x + 6)(x^2 + 4)$	$x^3 + 6x^2 + 4x + 24$
227.	$(x - 3)(x + 1i)(x - 1i)$	$(x - 3)(x^2 + 1)$	$x^3 - 3x^2 + x - 3$
228.	$(2x + 3)(x + 3i)(x - 3i)$	$(2x + 3)(x^2 + 9)$	$2x^3 + 3x^2 + 18x + 27$
229.	$(3x + 4)(x + 5i)(x - 5i)$	$(3x + 4)(x^2 + 25)$	$3x^3 + 4x^2 + 75x + 100$
230.	$(x + 4)(x + 6i)(x - 6i)$	$(x + 4)(x^2 + 36)$	$x^3 + 4x^2 + 36x + 144$
231.	$(3x + 5)(x + 4i)(x - 4i)$	$(3x + 5)(x^2 + 16)$	$3x^3 + 5x^2 + 48x + 80$
232.	$(2x - 5)(x + 5i)(x - 5i)$	$(2x - 5)(x^2 + 25)$	$2x^3 - 5x^2 + 50x - 125$
233.	$(3x - 4)(x + 3i)(x - 3i)$	$(3x - 4)(x^2 + 9)$	$3x^3 - 4x^2 + 27x - 36$
234.	$(2x - 3)(x + 9i)(x - 9i)$	$(2x - 3)(x^2 + 81)$	$2x^3 - 3x^2 + 162x - 243$
235.	$(3x + 1)(x + 5i)(x - 5i)$	$(3x + 1)(x^2 + 25)$	$3x^3 + x^2 + 75x + 25$
236.	$(3x - 5)(x + 6i)(x - 6i)$	$(3x - 5)(x^2 + 36)$	$3x^3 - 5x^2 + 108x - 180$
237.	$(2x + 7)(x + 6i)(x - 6i)$	$(2x + 7)(x^2 + 36)$	$2x^3 + 7x^2 + 72x + 252$
238.	$(3x - 5)(x + 3i)(x - 3i)$	$(3x - 5)(x^2 + 9)$	$3x^3 - 5x^2 + 27x - 45$
239.	$(x + 3)(x + 9i)(x - 9i)$	$(x + 3)(x^2 + 81)$	$x^3 + 3x^2 + 81x + 243$
240.	$(2x - 1)(x + 9i)(x - 9i)$	$(2x - 1)(x^2 + 81)$	$2x^3 - x^2 + 162x - 81$
241.	$(3x + 2)(x + 8i)(x - 8i)$	$(3x + 2)(x^2 + 64)$	$3x^3 + 2x^2 + 192x + 128$
242.	$(2x + 3)(x + 5i)(x - 5i)$	$(2x + 3)(x^2 + 25)$	$2x^3 + 3x^2 + 50x + 75$
243.	$(2x + 5)(x + 2i)(x - 2i)$	$(2x + 5)(x^2 + 4)$	$2x^3 + 5x^2 + 8x + 20$
244.	$(x + 3)(x + 5i)(x - 5i)$	$(x + 3)(x^2 + 25)$	$x^3 + 3x^2 + 25x + 75$
245.	$(2x + 1)(x + 10i)(x - 10i)$	$(2x + 1)(x^2 + 100)$	$2x^3 + x^2 + 200x + 100$
246.	$(x - 3)(x + 5i)(x - 5i)$	$(x - 3)(x^2 + 25)$	$x^3 - 3x^2 + 25x - 75$
247.	$(x - 4)(x + 5i)(x - 5i)$	$(x - 4)(x^2 + 25)$	$x^3 - 4x^2 + 25x - 100$
248.	$(3x - 5)(x + 9i)(x - 9i)$	$(3x - 5)(x^2 + 81)$	$3x^3 - 5x^2 + 243x - 405$
249.	$(x + 4)(x + 6i)(x - 6i)$	$(x + 4)(x^2 + 36)$	$x^3 + 4x^2 + 36x + 144$
250.	$(2x + 3)(x + 6i)(x - 6i)$	$(2x + 3)(x^2 + 36)$	$2x^3 + 3x^2 + 72x + 108$