

Three brackets

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

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|-----|--|------------------------------|-------------------------------|
| 1. | $(x + 4)(4x + 7 + \sqrt{27}i)(4x + 7 - \sqrt{27}i)$ | $(x + 4)(16x^2 + 56x + 76)$ | $16x^3 + 120x^2 + 300x + 304$ |
| 2. | $(x - 2)(3x - 2 + \sqrt{27}i)(3x - 2 - \sqrt{27}i)$ | $(x - 2)(9x^2 - 12x + 31)$ | $9x^3 - 30x^2 + 55x - 62$ |
| 3. | $(x - 2)(3x - 3 + \sqrt{17}i)(3x - 3 - \sqrt{17}i)$ | $(x - 2)(9x^2 - 18x + 26)$ | $9x^3 - 36x^2 + 62x - 52$ |
| 4. | $(5x - 1)(4x + 8 + \sqrt{4}i)(4x + 8 - \sqrt{4}i)$ | $(5x - 1)(16x^2 + 64x + 68)$ | $80x^3 + 304x^2 + 276x - 68$ |
| 5. | $(2x - 1)(2x + \sqrt{9}i)(2x - \sqrt{9}i)$ | $(2x - 1)(4x^2 + 9)$ | $8x^3 - 4x^2 + 18x - 9$ |
| 6. | $(4x + 1)(4x + 7 + \sqrt{17}i)(4x + 7 - \sqrt{17}i)$ | $(4x + 1)(16x^2 + 56x + 66)$ | $64x^3 + 240x^2 + 320x + 66$ |
| 7. | $(x + 2)(2x + 3 + \sqrt{8}i)(2x + 3 - \sqrt{8}i)$ | $(x + 2)(4x^2 + 12x + 17)$ | $4x^3 + 20x^2 + 41x + 34$ |
| 8. | $(x - 1)(4x + 2 + \sqrt{27}i)(4x + 2 - \sqrt{27}i)$ | $(x - 1)(16x^2 + 16x + 31)$ | $16x^3 + 15x - 31$ |
| 9. | $(x + 1)(2x + \sqrt{21}i)(2x - \sqrt{21}i)$ | $(x + 1)(4x^2 + 21)$ | $4x^3 + 4x^2 + 21x + 21$ |
| 10. | $(5x + 1)(4x + 8 + \sqrt{19}i)(4x + 8 - \sqrt{19}i)$ | $(5x + 1)(16x^2 + 64x + 83)$ | $80x^3 + 336x^2 + 479x + 83$ |
| 11. | $(x - 2)(4x + 6 + \sqrt{5}i)(4x + 6 - \sqrt{5}i)$ | $(x - 2)(16x^2 + 48x + 41)$ | $16x^3 + 16x^2 - 55x - 82$ |
| 12. | $(x + 2)(3x + \sqrt{26}i)(3x - \sqrt{26}i)$ | $(x + 2)(9x^2 + 26)$ | $9x^3 + 18x^2 + 26x + 52$ |
| 13. | $(5x + 4)(4x - 2 + \sqrt{6}i)(4x - 2 - \sqrt{6}i)$ | $(5x + 4)(16x^2 - 16x + 10)$ | $80x^3 - 16x^2 - 14x + 40$ |
| 14. | $(x + 1)(2x + 1 + \sqrt{14}i)(2x + 1 - \sqrt{14}i)$ | $(x + 1)(4x^2 + 4x + 15)$ | $4x^3 + 8x^2 + 19x + 15$ |
| 15. | $(3x - 1)(2x - 4 + \sqrt{4}i)(2x - 4 - \sqrt{4}i)$ | $(3x - 1)(4x^2 - 16x + 20)$ | $12x^3 - 52x^2 + 76x - 20$ |
| 16. | $(2x + 1)(3x - 4 + \sqrt{16}i)(3x - 4 - \sqrt{16}i)$ | $(2x + 1)(9x^2 - 24x + 32)$ | $18x^3 - 39x^2 + 40x + 32$ |
| 17. | $(3x - 2)(3x - 1 + \sqrt{23}i)(3x - 1 - \sqrt{23}i)$ | $(3x - 2)(9x^2 - 6x + 24)$ | $27x^3 - 36x^2 + 84x - 48$ |
| 18. | $(5x - 1)(2x - 2 + \sqrt{7}i)(2x - 2 - \sqrt{7}i)$ | $(5x - 1)(4x^2 - 8x + 11)$ | $20x^3 - 44x^2 + 63x - 11$ |
| 19. | $(x + 4)(2x + 6 + \sqrt{14}i)(2x + 6 - \sqrt{14}i)$ | $(x + 4)(4x^2 + 24x + 50)$ | $4x^3 + 40x^2 + 146x + 200$ |
| 20. | $(3x + 4)(4x - 3 + \sqrt{3}i)(4x - 3 - \sqrt{3}i)$ | $(3x + 4)(16x^2 - 24x + 12)$ | $48x^3 - 8x^2 - 60x + 48$ |
| 21. | $(3x - 1)(3x - 4 + \sqrt{18}i)(3x - 4 - \sqrt{18}i)$ | $(3x - 1)(9x^2 - 24x + 34)$ | $27x^3 - 81x^2 + 126x - 34$ |
| 22. | $(x + 4)(3x + 5 + \sqrt{25}i)(3x + 5 - \sqrt{25}i)$ | $(x + 4)(9x^2 + 30x + 50)$ | $9x^3 + 66x^2 + 170x + 200$ |
| 23. | $(x + 1)(2x - 4 + \sqrt{27}i)(2x - 4 - \sqrt{27}i)$ | $(x + 1)(4x^2 - 16x + 43)$ | $4x^3 - 12x^2 + 27x + 43$ |
| 24. | $(x + 3)(2x + 5 + \sqrt{7}i)(2x + 5 - \sqrt{7}i)$ | $(x + 3)(4x^2 + 20x + 32)$ | $4x^3 + 32x^2 + 92x + 96$ |
| 25. | $(2x + 3)(3x - 4 + \sqrt{20}i)(3x - 4 - \sqrt{20}i)$ | $(2x + 3)(9x^2 - 24x + 36)$ | $18x^3 - 21x^2 + 108$ |
| 26. | $(x + 1)(3x + 1 + \sqrt{28}i)(3x + 1 - \sqrt{28}i)$ | $(x + 1)(9x^2 + 6x + 29)$ | $9x^3 + 15x^2 + 35x + 29$ |
| 27. | $(x + 2)(3x + 5 + \sqrt{4}i)(3x + 5 - \sqrt{4}i)$ | $(x + 2)(9x^2 + 30x + 29)$ | $9x^3 + 48x^2 + 89x + 58$ |
| 28. | $(3x + 4)(2x + 8 + \sqrt{12}i)(2x + 8 - \sqrt{12}i)$ | $(3x + 4)(4x^2 + 32x + 76)$ | $12x^3 + 112x^2 + 356x + 304$ |
| 29. | $(x - 1)(3x + 5 + \sqrt{4}i)(3x + 5 - \sqrt{4}i)$ | $(x - 1)(9x^2 + 30x + 29)$ | $9x^3 + 21x^2 - x - 29$ |
| 30. | $(3x + 2)(3x + \sqrt{12}i)(3x - \sqrt{12}i)$ | $(3x + 2)(9x^2 + 12)$ | $27x^3 + 18x^2 + 36x + 24$ |
| 31. | $(5x + 3)(4x + \sqrt{18}i)(4x - \sqrt{18}i)$ | $(5x + 3)(16x^2 + 18)$ | $80x^3 + 48x^2 + 90x + 54$ |
| 32. | $(2x - 1)(4x + 8 + \sqrt{23}i)(4x + 8 - \sqrt{23}i)$ | $(2x - 1)(16x^2 + 64x + 87)$ | $32x^3 + 112x^2 + 110x - 87$ |
| 33. | $(x - 1)(2x + 1 + \sqrt{9}i)(2x + 1 - \sqrt{9}i)$ | $(x - 1)(4x^2 + 4x + 10)$ | $4x^3 + 6x - 10$ |
| 34. | $(2x + 3)(2x + 2 + \sqrt{4}i)(2x + 2 - \sqrt{4}i)$ | $(2x + 3)(4x^2 + 8x + 8)$ | $8x^3 + 28x^2 + 40x + 24$ |

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|-----|--|------------------------------|-------------------------------|
| 35. | $(5x + 3)(2x - 4 + \sqrt{3}i)(2x - 4 - \sqrt{3}i)$ | $(5x + 3)(4x^2 - 16x + 19)$ | $20x^3 - 68x^2 + 47x + 57$ |
| 36. | $(x + 3)(4x - 3 + \sqrt{7}i)(4x - 3 - \sqrt{7}i)$ | $(x + 3)(16x^2 - 24x + 16)$ | $16x^3 + 24x^2 - 56x + 48$ |
| 37. | $(x - 1)(3x - 2 + \sqrt{5}i)(3x - 2 - \sqrt{5}i)$ | $(x - 1)(9x^2 - 12x + 9)$ | $9x^3 - 21x^2 + 21x - 9$ |
| 38. | $(4x + 1)(4x - 1 + \sqrt{28}i)(4x - 1 - \sqrt{28}i)$ | $(4x + 1)(16x^2 - 8x + 29)$ | $64x^3 - 16x^2 + 108x + 29$ |
| 39. | $(x + 3)(2x + 7 + \sqrt{13}i)(2x + 7 - \sqrt{13}i)$ | $(x + 3)(4x^2 + 28x + 62)$ | $4x^3 + 40x^2 + 146x + 186$ |
| 40. | $(x - 2)(3x - 4 + \sqrt{28}i)(3x - 4 - \sqrt{28}i)$ | $(x - 2)(9x^2 - 24x + 44)$ | $9x^3 - 42x^2 + 92x - 88$ |
| 41. | $(x + 1)(4x + 4 + \sqrt{11}i)(4x + 4 - \sqrt{11}i)$ | $(x + 1)(16x^2 + 32x + 27)$ | $16x^3 + 48x^2 + 59x + 27$ |
| 42. | $(x + 1)(4x + 2 + \sqrt{3}i)(4x + 2 - \sqrt{3}i)$ | $(x + 1)(16x^2 + 16x + 7)$ | $16x^3 + 32x^2 + 23x + 7$ |
| 43. | $(5x + 2)(2x + 7 + \sqrt{15}i)(2x + 7 - \sqrt{15}i)$ | $(5x + 2)(4x^2 + 28x + 64)$ | $20x^3 + 148x^2 + 376x + 128$ |
| 44. | $(3x - 2)(3x + 7 + \sqrt{3}i)(3x + 7 - \sqrt{3}i)$ | $(3x - 2)(9x^2 + 42x + 52)$ | $27x^3 + 108x^2 + 72x - 104$ |
| 45. | $(5x + 2)(3x + 3 + \sqrt{22}i)(3x + 3 - \sqrt{22}i)$ | $(5x + 2)(9x^2 + 18x + 31)$ | $45x^3 + 108x^2 + 191x + 62$ |
| 46. | $(2x + 3)(3x - 2 + \sqrt{26}i)(3x - 2 - \sqrt{26}i)$ | $(2x + 3)(9x^2 - 12x + 30)$ | $18x^3 + 3x^2 + 24x + 90$ |
| 47. | $(x - 1)(2x + 8 + \sqrt{16}i)(2x + 8 - \sqrt{16}i)$ | $(x - 1)(4x^2 + 32x + 80)$ | $4x^3 + 28x^2 + 48x - 80$ |
| 48. | $(3x - 2)(4x - 1 + \sqrt{21}i)(4x - 1 - \sqrt{21}i)$ | $(3x - 2)(16x^2 - 8x + 22)$ | $48x^3 - 56x^2 + 82x - 44$ |
| 49. | $(x + 4)(3x + 7 + \sqrt{20}i)(3x + 7 - \sqrt{20}i)$ | $(x + 4)(9x^2 + 42x + 69)$ | $9x^3 + 78x^2 + 237x + 276$ |
| 50. | $(3x + 1)(3x - 2 + \sqrt{18}i)(3x - 2 - \sqrt{18}i)$ | $(3x + 1)(9x^2 - 12x + 22)$ | $27x^3 - 27x^2 + 54x + 22$ |
| 51. | $(x + 3)(2x + 5 + \sqrt{23}i)(2x + 5 - \sqrt{23}i)$ | $(x + 3)(4x^2 + 20x + 48)$ | $4x^3 + 32x^2 + 108x + 144$ |
| 52. | $(2x + 3)(2x - 1 + \sqrt{12}i)(2x - 1 - \sqrt{12}i)$ | $(2x + 3)(4x^2 - 4x + 13)$ | $8x^3 + 4x^2 + 14x + 39$ |
| 53. | $(x + 4)(4x + 4 + \sqrt{11}i)(4x + 4 - \sqrt{11}i)$ | $(x + 4)(16x^2 + 32x + 27)$ | $16x^3 + 96x^2 + 155x + 108$ |
| 54. | $(5x - 1)(3x + 1 + \sqrt{19}i)(3x + 1 - \sqrt{19}i)$ | $(5x - 1)(9x^2 + 6x + 20)$ | $45x^3 + 21x^2 + 94x - 20$ |
| 55. | $(3x + 4)(3x + 2 + \sqrt{25}i)(3x + 2 - \sqrt{25}i)$ | $(3x + 4)(9x^2 + 12x + 29)$ | $27x^3 + 72x^2 + 135x + 116$ |
| 56. | $(x - 1)(4x + 2 + \sqrt{23}i)(4x + 2 - \sqrt{23}i)$ | $(x - 1)(16x^2 + 16x + 27)$ | $16x^3 + 11x - 27$ |
| 57. | $(4x - 1)(2x + 3 + \sqrt{9}i)(2x + 3 - \sqrt{9}i)$ | $(4x - 1)(4x^2 + 12x + 18)$ | $16x^3 + 44x^2 + 60x - 18$ |
| 58. | $(x - 1)(2x + 6 + \sqrt{14}i)(2x + 6 - \sqrt{14}i)$ | $(x - 1)(4x^2 + 24x + 50)$ | $4x^3 + 20x^2 + 26x - 50$ |
| 59. | $(5x + 3)(3x + 4 + \sqrt{3}i)(3x + 4 - \sqrt{3}i)$ | $(5x + 3)(9x^2 + 24x + 19)$ | $45x^3 + 147x^2 + 167x + 57$ |
| 60. | $(3x + 2)(4x + 1 + \sqrt{23}i)(4x + 1 - \sqrt{23}i)$ | $(3x + 2)(16x^2 + 8x + 24)$ | $48x^3 + 56x^2 + 88x + 48$ |
| 61. | $(x + 4)(2x + 6 + \sqrt{29}i)(2x + 6 - \sqrt{29}i)$ | $(x + 4)(4x^2 + 24x + 65)$ | $4x^3 + 40x^2 + 161x + 260$ |
| 62. | $(3x - 2)(2x + 3 + \sqrt{22}i)(2x + 3 - \sqrt{22}i)$ | $(3x - 2)(4x^2 + 12x + 31)$ | $12x^3 + 28x^2 + 69x - 62$ |
| 63. | $(4x - 1)(4x + 8 + \sqrt{29}i)(4x + 8 - \sqrt{29}i)$ | $(4x - 1)(16x^2 + 64x + 93)$ | $64x^3 + 240x^2 + 308x - 93$ |
| 64. | $(x + 3)(3x - 3 + \sqrt{17}i)(3x - 3 - \sqrt{17}i)$ | $(x + 3)(9x^2 - 18x + 26)$ | $9x^3 + 9x^2 - 28x + 78$ |
| 65. | $(5x - 1)(2x + 3 + \sqrt{28}i)(2x + 3 - \sqrt{28}i)$ | $(5x - 1)(4x^2 + 12x + 37)$ | $20x^3 + 56x^2 + 173x - 37$ |
| 66. | $(3x - 1)(4x + 3 + \sqrt{19}i)(4x + 3 - \sqrt{19}i)$ | $(3x - 1)(16x^2 + 24x + 28)$ | $48x^3 + 56x^2 + 60x - 28$ |
| 67. | $(x - 1)(2x + 1 + \sqrt{13}i)(2x + 1 - \sqrt{13}i)$ | $(x - 1)(4x^2 + 4x + 14)$ | $4x^3 + 10x - 14$ |
| 68. | $(2x + 1)(4x - 3 + \sqrt{13}i)(4x - 3 - \sqrt{13}i)$ | $(2x + 1)(16x^2 - 24x + 22)$ | $32x^3 - 32x^2 + 20x + 22$ |
| 69. | $(3x + 1)(4x + 8 + \sqrt{15}i)(4x + 8 - \sqrt{15}i)$ | $(3x + 1)(16x^2 + 64x + 79)$ | $48x^3 + 208x^2 + 301x + 79$ |
| 70. | $(x + 3)(3x + 3 + \sqrt{7}i)(3x + 3 - \sqrt{7}i)$ | $(x + 3)(9x^2 + 18x + 16)$ | $9x^3 + 45x^2 + 70x + 48$ |
| 71. | $(2x + 3)(2x + 4 + \sqrt{14}i)(2x + 4 - \sqrt{14}i)$ | $(2x + 3)(4x^2 + 16x + 30)$ | $8x^3 + 44x^2 + 108x + 90$ |

72. $(x + 2)(2x - 1 + \sqrt{28}i)(2x - 1 - \sqrt{28}i)$ $(x + 2)(4x^2 - 4x + 29)$ $4x^3 + 4x^2 + 21x + 58$
73. $(x + 1)(2x + 4 + \sqrt{8}i)(2x + 4 - \sqrt{8}i)$ $(x + 1)(4x^2 + 16x + 24)$ $4x^3 + 20x^2 + 40x + 24$
74. $(3x - 1)(3x + 1 + \sqrt{3}i)(3x + 1 - \sqrt{3}i)$ $(3x - 1)(9x^2 + 6x + 4)$ $27x^3 + 9x^2 + 6x - 4$
75. $(3x + 2)(3x + 3 + \sqrt{19}i)(3x + 3 - \sqrt{19}i)$ $(3x + 2)(9x^2 + 18x + 28)$ $27x^3 + 72x^2 + 120x + 56$
76. $(4x - 1)(4x - 1 + \sqrt{15}i)(4x - 1 - \sqrt{15}i)$ $(4x - 1)(16x^2 - 8x + 16)$ $64x^3 - 48x^2 + 72x - 16$
77. $(3x + 1)(3x - 4 + \sqrt{25}i)(3x - 4 - \sqrt{25}i)$ $(3x + 1)(9x^2 - 24x + 41)$ $27x^3 - 63x^2 + 99x + 41$
78. $(5x - 2)(4x - 3 + \sqrt{25}i)(4x - 3 - \sqrt{25}i)$ $(5x - 2)(16x^2 - 24x + 34)$ $80x^3 - 152x^2 + 218x - 68$
79. $(4x + 1)(2x + 3 + \sqrt{11}i)(2x + 3 - \sqrt{11}i)$ $(4x + 1)(4x^2 + 12x + 20)$ $16x^3 + 52x^2 + 92x + 20$
80. $(x + 1)(2x + 5 + \sqrt{29}i)(2x + 5 - \sqrt{29}i)$ $(x + 1)(4x^2 + 20x + 54)$ $4x^3 + 24x^2 + 74x + 54$
81. $(5x + 1)(3x + 4 + \sqrt{8}i)(3x + 4 - \sqrt{8}i)$ $(5x + 1)(9x^2 + 24x + 24)$ $45x^3 + 129x^2 + 144x + 24$
82. $(4x - 1)(2x - 2 + \sqrt{3}i)(2x - 2 - \sqrt{3}i)$ $(4x - 1)(4x^2 - 8x + 7)$ $16x^3 - 36x^2 + 36x - 7$
83. $(5x - 1)(4x + 8 + \sqrt{29}i)(4x + 8 - \sqrt{29}i)$ $(5x - 1)(16x^2 + 64x + 93)$ $80x^3 + 304x^2 + 401x - 93$
84. $(x - 2)(4x - 3 + \sqrt{10}i)(4x - 3 - \sqrt{10}i)$ $(x - 2)(16x^2 - 24x + 19)$ $16x^3 - 56x^2 + 67x - 38$
85. $(5x + 1)(2x - 4 + \sqrt{22}i)(2x - 4 - \sqrt{22}i)$ $(5x + 1)(4x^2 - 16x + 38)$ $20x^3 - 76x^2 + 174x + 38$
86. $(x - 2)(2x - 1 + \sqrt{15}i)(2x - 1 - \sqrt{15}i)$ $(x - 2)(4x^2 - 4x + 16)$ $4x^3 - 12x^2 + 24x - 32$
87. $(4x + 1)(3x + 5 + \sqrt{21}i)(3x + 5 - \sqrt{21}i)$ $(4x + 1)(9x^2 + 30x + 46)$ $36x^3 + 129x^2 + 214x + 46$
88. $(4x + 1)(2x + 2 + \sqrt{17}i)(2x + 2 - \sqrt{17}i)$ $(4x + 1)(4x^2 + 8x + 21)$ $16x^3 + 36x^2 + 92x + 21$
89. $(4x - 1)(3x + 8 + \sqrt{10}i)(3x + 8 - \sqrt{10}i)$ $(4x - 1)(9x^2 + 48x + 74)$ $36x^3 + 183x^2 + 248x - 74$
90. $(5x + 3)(3x + 1 + \sqrt{6}i)(3x + 1 - \sqrt{6}i)$ $(5x + 3)(9x^2 + 6x + 7)$ $45x^3 + 57x^2 + 53x + 21$
91. $(3x - 1)(2x + 6 + \sqrt{26}i)(2x + 6 - \sqrt{26}i)$ $(3x - 1)(4x^2 + 24x + 62)$ $12x^3 + 68x^2 + 162x - 62$
92. $(3x + 2)(2x + 2 + \sqrt{15}i)(2x + 2 - \sqrt{15}i)$ $(3x + 2)(4x^2 + 8x + 19)$ $12x^3 + 32x^2 + 73x + 38$
93. $(x + 2)(4x + 8 + \sqrt{13}i)(4x + 8 - \sqrt{13}i)$ $(x + 2)(16x^2 + 64x + 77)$ $16x^3 + 96x^2 + 205x + 154$
94. $(5x - 1)(2x + 4 + \sqrt{27}i)(2x + 4 - \sqrt{27}i)$ $(5x - 1)(4x^2 + 16x + 43)$ $20x^3 + 76x^2 + 199x - 43$
95. $(2x + 3)(3x + 2 + \sqrt{27}i)(3x + 2 - \sqrt{27}i)$ $(2x + 3)(9x^2 + 12x + 31)$ $18x^3 + 51x^2 + 98x + 93$
96. $(3x - 1)(3x + 4 + \sqrt{10}i)(3x + 4 - \sqrt{10}i)$ $(3x - 1)(9x^2 + 24x + 26)$ $27x^3 + 63x^2 + 54x - 26$
97. $(5x + 4)(2x + 2 + \sqrt{29}i)(2x + 2 - \sqrt{29}i)$ $(5x + 4)(4x^2 + 8x + 33)$ $20x^3 + 56x^2 + 197x + 132$
98. $(2x - 1)(4x + 1 + \sqrt{16}i)(4x + 1 - \sqrt{16}i)$ $(2x - 1)(16x^2 + 8x + 17)$ $32x^3 + 26x - 17$
99. $(5x + 2)(3x + 8 + \sqrt{4}i)(3x + 8 - \sqrt{4}i)$ $(5x + 2)(9x^2 + 48x + 68)$ $45x^3 + 258x^2 + 436x + 136$
100. $(2x - 1)(2x + 4 + \sqrt{26}i)(2x + 4 - \sqrt{26}i)$ $(2x - 1)(4x^2 + 16x + 42)$ $8x^3 + 28x^2 + 68x - 42$
101. $(3x + 2)(4x + 6 + \sqrt{18}i)(4x + 6 - \sqrt{18}i)$ $(3x + 2)(16x^2 + 48x + 54)$ $48x^3 + 176x^2 + 258x + 108$
102. $(x + 2)(3x - 3 + \sqrt{24}i)(3x - 3 - \sqrt{24}i)$ $(x + 2)(9x^2 - 18x + 33)$ $9x^3 - 3x + 66$
103. $(x + 3)(4x - 2 + \sqrt{30}i)(4x - 2 - \sqrt{30}i)$ $(x + 3)(16x^2 - 16x + 34)$ $16x^3 + 32x^2 - 14x + 102$
104. $(5x + 1)(2x - 4 + \sqrt{25}i)(2x - 4 - \sqrt{25}i)$ $(5x + 1)(4x^2 - 16x + 41)$ $20x^3 - 76x^2 + 189x + 41$
105. $(2x + 1)(3x + 6 + \sqrt{29}i)(3x + 6 - \sqrt{29}i)$ $(2x + 1)(9x^2 + 36x + 65)$ $18x^3 + 81x^2 + 166x + 65$
106. $(3x - 1)(4x + 6 + \sqrt{13}i)(4x + 6 - \sqrt{13}i)$ $(3x - 1)(16x^2 + 48x + 49)$ $48x^3 + 128x^2 + 99x - 49$
107. $(2x - 1)(2x - 2 + \sqrt{19}i)(2x - 2 - \sqrt{19}i)$ $(2x - 1)(4x^2 - 8x + 23)$ $8x^3 - 20x^2 + 54x - 23$
108. $(5x + 4)(4x - 1 + \sqrt{4}i)(4x - 1 - \sqrt{4}i)$ $(5x + 4)(16x^2 - 8x + 5)$ $80x^3 + 24x^2 - 7x + 20$

109. $(3x + 4)(4x + 2 + \sqrt{22i})(4x + 2 - \sqrt{22i})$ $(3x + 4)(16x^2 + 16x + 26)$ $48x^3 + 112x^2 + 142x + 104$
110. $(5x - 1)(2x + 2 + \sqrt{19i})(2x + 2 - \sqrt{19i})$ $(5x - 1)(4x^2 + 8x + 23)$ $20x^3 + 36x^2 + 107x - 23$
111. $(4x - 1)(2x + 8 + \sqrt{17i})(2x + 8 - \sqrt{17i})$ $(4x - 1)(4x^2 + 32x + 81)$ $16x^3 + 124x^2 + 292x - 81$
112. $(3x + 4)(4x - 3 + \sqrt{24i})(4x - 3 - \sqrt{24i})$ $(3x + 4)(16x^2 - 24x + 33)$ $48x^3 - 8x^2 + 3x + 132$
113. $(5x + 2)(4x + 7 + \sqrt{26i})(4x + 7 - \sqrt{26i})$ $(5x + 2)(16x^2 + 56x + 75)$ $80x^3 + 312x^2 + 487x + 150$
114. $(4x - 1)(4x + 7 + \sqrt{24i})(4x + 7 - \sqrt{24i})$ $(4x - 1)(16x^2 + 56x + 73)$ $64x^3 + 208x^2 + 236x - 73$
115. $(x + 1)(2x + 5 + \sqrt{9i})(2x + 5 - \sqrt{9i})$ $(x + 1)(4x^2 + 20x + 34)$ $4x^3 + 24x^2 + 54x + 34$
116. $(3x - 1)(2x + 8 + \sqrt{19i})(2x + 8 - \sqrt{19i})$ $(3x - 1)(4x^2 + 32x + 83)$ $12x^3 + 92x^2 + 217x - 83$
117. $(5x + 4)(4x + 2 + \sqrt{13i})(4x + 2 - \sqrt{13i})$ $(5x + 4)(16x^2 + 16x + 17)$ $80x^3 + 144x^2 + 149x + 68$
118. $(x - 2)(3x - 1 + \sqrt{19i})(3x - 1 - \sqrt{19i})$ $(x - 2)(9x^2 - 6x + 20)$ $9x^3 - 24x^2 + 32x - 40$
119. $(x - 2)(4x + 8 + \sqrt{22i})(4x + 8 - \sqrt{22i})$ $(x - 2)(16x^2 + 64x + 86)$ $16x^3 + 32x^2 - 42x - 172$
120. $(2x - 1)(4x + 3 + \sqrt{17i})(4x + 3 - \sqrt{17i})$ $(2x - 1)(16x^2 + 24x + 26)$ $32x^3 + 32x^2 + 28x - 26$
121. $(x - 2)(2x - 2 + \sqrt{9i})(2x - 2 - \sqrt{9i})$ $(x - 2)(4x^2 - 8x + 13)$ $4x^3 - 16x^2 + 29x - 26$
122. $(5x + 3)(2x + 4 + \sqrt{27i})(2x + 4 - \sqrt{27i})$ $(5x + 3)(4x^2 + 16x + 43)$ $20x^3 + 92x^2 + 263x + 129$
123. $(2x - 1)(3x - 1 + \sqrt{18i})(3x - 1 - \sqrt{18i})$ $(2x - 1)(9x^2 - 6x + 19)$ $18x^3 - 21x^2 + 44x - 19$
124. $(5x - 1)(2x + 3 + \sqrt{11i})(2x + 3 - \sqrt{11i})$ $(5x - 1)(4x^2 + 12x + 20)$ $20x^3 + 56x^2 + 88x - 20$
125. $(3x + 4)(4x - 3 + \sqrt{30i})(4x - 3 - \sqrt{30i})$ $(3x + 4)(16x^2 - 24x + 39)$ $48x^3 - 8x^2 + 21x + 156$
126. $(3x - 1)(3x - 3 + \sqrt{6i})(3x - 3 - \sqrt{6i})$ $(3x - 1)(9x^2 - 18x + 15)$ $27x^3 - 63x^2 + 63x - 15$
127. $(3x - 1)(2x + 8 + \sqrt{14i})(2x + 8 - \sqrt{14i})$ $(3x - 1)(4x^2 + 32x + 78)$ $12x^3 + 92x^2 + 202x - 78$
128. $(3x - 2)(4x + 3 + \sqrt{18i})(4x + 3 - \sqrt{18i})$ $(3x - 2)(16x^2 + 24x + 27)$ $48x^3 + 40x^2 + 33x - 54$
129. $(3x - 1)(4x - 2 + \sqrt{22i})(4x - 2 - \sqrt{22i})$ $(3x - 1)(16x^2 - 16x + 26)$ $48x^3 - 64x^2 + 94x - 26$
130. $(x + 3)(4x - 4 + \sqrt{4i})(4x - 4 - \sqrt{4i})$ $(x + 3)(16x^2 - 32x + 20)$ $16x^3 + 16x^2 - 76x + 60$
131. $(2x - 1)(4x + 2 + \sqrt{19i})(4x + 2 - \sqrt{19i})$ $(2x - 1)(16x^2 + 16x + 23)$ $32x^3 + 16x^2 + 30x - 23$
132. $(2x - 1)(4x - 3 + \sqrt{22i})(4x - 3 - \sqrt{22i})$ $(2x - 1)(16x^2 - 24x + 31)$ $32x^3 - 64x^2 + 86x - 31$
133. $(5x + 1)(3x + 6 + \sqrt{25i})(3x + 6 - \sqrt{25i})$ $(5x + 1)(9x^2 + 36x + 61)$ $45x^3 + 189x^2 + 341x + 61$
134. $(2x + 1)(4x + 4 + \sqrt{29i})(4x + 4 - \sqrt{29i})$ $(2x + 1)(16x^2 + 32x + 45)$ $32x^3 + 80x^2 + 122x + 45$
135. $(5x + 1)(4x + 3 + \sqrt{23i})(4x + 3 - \sqrt{23i})$ $(5x + 1)(16x^2 + 24x + 32)$ $80x^3 + 136x^2 + 184x + 32$
136. $(2x + 3)(3x - 4 + \sqrt{27i})(3x - 4 - \sqrt{27i})$ $(2x + 3)(9x^2 - 24x + 43)$ $18x^3 - 21x^2 + 14x + 129$
137. $(5x + 1)(4x + 5 + \sqrt{10i})(4x + 5 - \sqrt{10i})$ $(5x + 1)(16x^2 + 40x + 35)$ $80x^3 + 216x^2 + 215x + 35$
138. $(5x + 3)(3x + 1 + \sqrt{15i})(3x + 1 - \sqrt{15i})$ $(5x + 3)(9x^2 + 6x + 16)$ $45x^3 + 57x^2 + 98x + 48$
139. $(2x + 1)(3x + 5 + \sqrt{26i})(3x + 5 - \sqrt{26i})$ $(2x + 1)(9x^2 + 30x + 51)$ $18x^3 + 69x^2 + 132x + 51$
140. $(3x + 1)(3x - 1 + \sqrt{19i})(3x - 1 - \sqrt{19i})$ $(3x + 1)(9x^2 - 6x + 20)$ $27x^3 - 9x^2 + 54x + 20$
141. $(5x - 1)(3x + 1 + \sqrt{25i})(3x + 1 - \sqrt{25i})$ $(5x - 1)(9x^2 + 6x + 26)$ $45x^3 + 21x^2 + 124x - 26$
142. $(2x + 3)(2x + 3 + \sqrt{16i})(2x + 3 - \sqrt{16i})$ $(2x + 3)(4x^2 + 12x + 25)$ $8x^3 + 36x^2 + 86x + 75$
143. $(5x + 2)(4x + 6 + \sqrt{27i})(4x + 6 - \sqrt{27i})$ $(5x + 2)(16x^2 + 48x + 63)$ $80x^3 + 272x^2 + 411x + 126$
144. $(x + 3)(4x - 3 + \sqrt{16i})(4x - 3 - \sqrt{16i})$ $(x + 3)(16x^2 - 24x + 25)$ $16x^3 + 24x^2 - 47x + 75$
145. $(3x - 1)(3x + 7 + \sqrt{6i})(3x + 7 - \sqrt{6i})$ $(3x - 1)(9x^2 + 42x + 55)$ $27x^3 + 117x^2 + 123x - 55$

146. $(2x - 1)(3x + 6 + \sqrt{3}i)(3x + 6 - \sqrt{3}i)$ $(2x - 1)(9x^2 + 36x + 39)$ $18x^3 + 63x^2 + 42x - 39$
147. $(4x - 1)(4x + 3 + \sqrt{28}i)(4x + 3 - \sqrt{28}i)$ $(4x - 1)(16x^2 + 24x + 37)$ $64x^3 + 80x^2 + 124x - 37$
148. $(3x + 2)(2x + 4 + \sqrt{27}i)(2x + 4 - \sqrt{27}i)$ $(3x + 2)(4x^2 + 16x + 43)$ $12x^3 + 56x^2 + 161x + 86$
149. $(x + 2)(3x + 3 + \sqrt{6}i)(3x + 3 - \sqrt{6}i)$ $(x + 2)(9x^2 + 18x + 15)$ $9x^3 + 36x^2 + 51x + 30$
150. $(5x + 4)(3x + 5 + \sqrt{9}i)(3x + 5 - \sqrt{9}i)$ $(5x + 4)(9x^2 + 30x + 34)$ $45x^3 + 186x^2 + 290x + 136$
151. $(x - 2)(3x + 6 + \sqrt{7}i)(3x + 6 - \sqrt{7}i)$ $(x - 2)(9x^2 + 36x + 43)$ $9x^3 + 18x^2 - 29x - 86$
152. $(5x - 1)(2x - 2 + \sqrt{10}i)(2x - 2 - \sqrt{10}i)$ $(5x - 1)(4x^2 - 8x + 14)$ $20x^3 - 44x^2 + 78x - 14$
153. $(x + 4)(3x + 1 + \sqrt{21}i)(3x + 1 - \sqrt{21}i)$ $(x + 4)(9x^2 + 6x + 22)$ $9x^3 + 42x^2 + 46x + 88$
154. $(x - 1)(4x - 3 + \sqrt{7}i)(4x - 3 - \sqrt{7}i)$ $(x - 1)(16x^2 - 24x + 16)$ $16x^3 - 40x^2 + 40x - 16$
155. $(3x - 2)(4x + 4 + \sqrt{5}i)(4x + 4 - \sqrt{5}i)$ $(3x - 2)(16x^2 + 32x + 21)$ $48x^3 + 64x^2 - x - 42$
156. $(4x + 3)(3x + 6 + \sqrt{11}i)(3x + 6 - \sqrt{11}i)$ $(4x + 3)(9x^2 + 36x + 47)$ $36x^3 + 171x^2 + 296x + 141$
157. $(x + 2)(4x - 3 + \sqrt{14}i)(4x - 3 - \sqrt{14}i)$ $(x + 2)(16x^2 - 24x + 23)$ $16x^3 + 8x^2 - 25x + 46$
158. $(3x - 1)(3x + 5 + \sqrt{10}i)(3x + 5 - \sqrt{10}i)$ $(3x - 1)(9x^2 + 30x + 35)$ $27x^3 + 81x^2 + 75x - 35$
159. $(3x - 2)(4x + 2 + \sqrt{10}i)(4x + 2 - \sqrt{10}i)$ $(3x - 2)(16x^2 + 16x + 14)$ $48x^3 + 16x^2 + 10x - 28$
160. $(x + 4)(2x - 2 + \sqrt{30}i)(2x - 2 - \sqrt{30}i)$ $(x + 4)(4x^2 - 8x + 34)$ $4x^3 + 8x^2 + 2x + 136$
161. $(5x + 4)(4x + 7 + \sqrt{24}i)(4x + 7 - \sqrt{24}i)$ $(5x + 4)(16x^2 + 56x + 73)$ $80x^3 + 344x^2 + 589x + 292$
162. $(x + 1)(3x + 4 + \sqrt{8}i)(3x + 4 - \sqrt{8}i)$ $(x + 1)(9x^2 + 24x + 24)$ $9x^3 + 33x^2 + 48x + 24$
163. $(2x + 1)(3x + 5 + \sqrt{24}i)(3x + 5 - \sqrt{24}i)$ $(2x + 1)(9x^2 + 30x + 49)$ $18x^3 + 69x^2 + 128x + 49$
164. $(5x + 4)(4x - 3 + \sqrt{22}i)(4x - 3 - \sqrt{22}i)$ $(5x + 4)(16x^2 - 24x + 31)$ $80x^3 - 56x^2 + 59x + 124$
165. $(5x - 1)(4x + 6 + \sqrt{21}i)(4x + 6 - \sqrt{21}i)$ $(5x - 1)(16x^2 + 48x + 57)$ $80x^3 + 224x^2 + 237x - 57$
166. $(2x + 1)(4x - 1 + \sqrt{10}i)(4x - 1 - \sqrt{10}i)$ $(2x + 1)(16x^2 - 8x + 11)$ $32x^3 + 14x + 11$
167. $(5x - 1)(2x + 4 + \sqrt{30}i)(2x + 4 - \sqrt{30}i)$ $(5x - 1)(4x^2 + 16x + 46)$ $20x^3 + 76x^2 + 214x - 46$
168. $(4x + 3)(2x + 3 + \sqrt{11}i)(2x + 3 - \sqrt{11}i)$ $(4x + 3)(4x^2 + 12x + 20)$ $16x^3 + 60x^2 + 116x + 60$
169. $(5x + 1)(2x + 5 + \sqrt{21}i)(2x + 5 - \sqrt{21}i)$ $(5x + 1)(4x^2 + 20x + 46)$ $20x^3 + 104x^2 + 250x + 46$
170. $(x + 1)(3x - 3 + \sqrt{30}i)(3x - 3 - \sqrt{30}i)$ $(x + 1)(9x^2 - 18x + 39)$ $9x^3 - 9x^2 + 21x + 39$
171. $(3x + 4)(3x - 3 + \sqrt{5}i)(3x - 3 - \sqrt{5}i)$ $(3x + 4)(9x^2 - 18x + 14)$ $27x^3 - 18x^2 - 30x + 56$
172. $(x - 2)(2x - 4 + \sqrt{19}i)(2x - 4 - \sqrt{19}i)$ $(x - 2)(4x^2 - 16x + 35)$ $4x^3 - 24x^2 + 67x - 70$
173. $(5x + 2)(4x - 3 + \sqrt{16}i)(4x - 3 - \sqrt{16}i)$ $(5x + 2)(16x^2 - 24x + 25)$ $80x^3 - 88x^2 + 77x + 50$
174. $(3x + 2)(2x - 3 + \sqrt{14}i)(2x - 3 - \sqrt{14}i)$ $(3x + 2)(4x^2 - 12x + 23)$ $12x^3 - 28x^2 + 45x + 46$
175. $(5x + 1)(4x + 2 + \sqrt{27}i)(4x + 2 - \sqrt{27}i)$ $(5x + 1)(16x^2 + 16x + 31)$ $80x^3 + 96x^2 + 171x + 31$
176. $(2x - 1)(2x + 6 + \sqrt{26}i)(2x + 6 - \sqrt{26}i)$ $(2x - 1)(4x^2 + 24x + 62)$ $8x^3 + 44x^2 + 100x - 62$
177. $(x + 4)(2x - 2 + \sqrt{4}i)(2x - 2 - \sqrt{4}i)$ $(x + 4)(4x^2 - 8x + 8)$ $4x^3 + 8x^2 - 24x + 32$
178. $(3x - 1)(2x + 2 + \sqrt{25}i)(2x + 2 - \sqrt{25}i)$ $(3x - 1)(4x^2 + 8x + 29)$ $12x^3 + 20x^2 + 79x - 29$
179. $(5x - 1)(2x + 6 + \sqrt{29}i)(2x + 6 - \sqrt{29}i)$ $(5x - 1)(4x^2 + 24x + 65)$ $20x^3 + 116x^2 + 301x - 65$
180. $(x - 2)(3x + 3 + \sqrt{3}i)(3x + 3 - \sqrt{3}i)$ $(x - 2)(9x^2 + 18x + 12)$ $9x^3 - 24x - 24$
181. $(5x + 2)(3x + 3 + \sqrt{26}i)(3x + 3 - \sqrt{26}i)$ $(5x + 2)(9x^2 + 18x + 35)$ $45x^3 + 108x^2 + 211x + 70$
182. $(x - 1)(4x - 2 + \sqrt{6}i)(4x - 2 - \sqrt{6}i)$ $(x - 1)(16x^2 - 16x + 10)$ $16x^3 - 32x^2 + 26x - 10$

183. $(4x - 1)(2x + 8 + \sqrt{29}i)(2x + 8 - \sqrt{29}i)$ $(4x - 1)(4x^2 + 32x + 93)$ $16x^3 + 124x^2 + 340x - 93$
184. $(x + 3)(2x + 7 + \sqrt{5}i)(2x + 7 - \sqrt{5}i)$ $(x + 3)(4x^2 + 28x + 54)$ $4x^3 + 40x^2 + 138x + 162$
185. $(5x - 2)(3x - 4 + \sqrt{23}i)(3x - 4 - \sqrt{23}i)$ $(5x - 2)(9x^2 - 24x + 39)$ $45x^3 - 138x^2 + 243x - 78$
186. $(3x + 1)(4x - 1 + \sqrt{4}i)(4x - 1 - \sqrt{4}i)$ $(3x + 1)(16x^2 - 8x + 5)$ $48x^3 - 8x^2 + 7x + 5$
187. $(3x - 2)(3x - 4 + \sqrt{30}i)(3x - 4 - \sqrt{30}i)$ $(3x - 2)(9x^2 - 24x + 46)$ $27x^3 - 90x^2 + 186x - 92$
188. $(3x + 1)(2x - 4 + \sqrt{30}i)(2x - 4 - \sqrt{30}i)$ $(3x + 1)(4x^2 - 16x + 46)$ $12x^3 - 44x^2 + 122x + 46$
189. $(5x - 2)(4x + 6 + \sqrt{23}i)(4x + 6 - \sqrt{23}i)$ $(5x - 2)(16x^2 + 48x + 59)$ $80x^3 + 208x^2 + 199x - 118$
190. $(3x + 2)(2x + 1 + \sqrt{27}i)(2x + 1 - \sqrt{27}i)$ $(3x + 2)(4x^2 + 4x + 28)$ $12x^3 + 20x^2 + 92x + 56$
191. $(2x + 1)(4x - 2 + \sqrt{9}i)(4x - 2 - \sqrt{9}i)$ $(2x + 1)(16x^2 - 16x + 13)$ $32x^3 - 16x^2 + 10x + 13$
192. $(3x - 1)(3x - 2 + \sqrt{19}i)(3x - 2 - \sqrt{19}i)$ $(3x - 1)(9x^2 - 12x + 23)$ $27x^3 - 45x^2 + 81x - 23$
193. $(x + 2)(2x - 3 + \sqrt{16}i)(2x - 3 - \sqrt{16}i)$ $(x + 2)(4x^2 - 12x + 25)$ $4x^3 - 4x^2 + x + 50$
194. $(3x + 4)(2x - 3 + \sqrt{19}i)(2x - 3 - \sqrt{19}i)$ $(3x + 4)(4x^2 - 12x + 28)$ $12x^3 - 20x^2 + 36x + 112$
195. $(3x + 2)(3x + 4 + \sqrt{21}i)(3x + 4 - \sqrt{21}i)$ $(3x + 2)(9x^2 + 24x + 37)$ $27x^3 + 90x^2 + 159x + 74$
196. $(4x + 1)(2x + 8 + \sqrt{12}i)(2x + 8 - \sqrt{12}i)$ $(4x + 1)(4x^2 + 32x + 76)$ $16x^3 + 132x^2 + 336x + 76$
197. $(x + 3)(2x + 8 + \sqrt{16}i)(2x + 8 - \sqrt{16}i)$ $(x + 3)(4x^2 + 32x + 80)$ $4x^3 + 44x^2 + 176x + 240$
198. $(2x + 1)(3x - 3 + \sqrt{9}i)(3x - 3 - \sqrt{9}i)$ $(2x + 1)(9x^2 - 18x + 18)$ $18x^3 - 27x^2 + 18x + 18$
199. $(5x - 2)(2x - 1 + \sqrt{17}i)(2x - 1 - \sqrt{17}i)$ $(5x - 2)(4x^2 - 4x + 18)$ $20x^3 - 28x^2 + 98x - 36$
200. $(3x + 1)(4x + 5 + \sqrt{27}i)(4x + 5 - \sqrt{27}i)$ $(3x + 1)(16x^2 + 40x + 52)$ $48x^3 + 136x^2 + 196x + 52$

201. $(5x + 4)(3x + \sqrt{20}i)(3x - \sqrt{20}i)$ $(5x + 4)(9x^2 + 20)$ $45x^3 + 36x^2 + 100x + 80$
202. $(3x + 2)(4x + \sqrt{27}i)(4x - \sqrt{27}i)$ $(3x + 2)(16x^2 + 27)$ $48x^3 + 32x^2 + 81x + 54$
203. $(3x - 2)(3x + \sqrt{15}i)(3x - \sqrt{15}i)$ $(3x - 2)(9x^2 + 15)$ $27x^3 - 18x^2 + 45x - 30$
204. $(x - 2)(2x + \sqrt{10}i)(2x - \sqrt{10}i)$ $(x - 2)(4x^2 + 10)$ $4x^3 - 8x^2 + 10x - 20$
205. $(2x + 1)(3x + \sqrt{24}i)(3x - \sqrt{24}i)$ $(2x + 1)(9x^2 + 24)$ $18x^3 + 9x^2 + 48x + 24$
206. $(x + 1)(4x + \sqrt{27}i)(4x - \sqrt{27}i)$ $(x + 1)(16x^2 + 27)$ $16x^3 + 16x^2 + 27x + 27$
207. $(2x + 3)(4x + \sqrt{20}i)(4x - \sqrt{20}i)$ $(2x + 3)(16x^2 + 20)$ $32x^3 + 48x^2 + 40x + 60$
208. $(4x + 1)(2x + \sqrt{28}i)(2x - \sqrt{28}i)$ $(4x + 1)(4x^2 + 28)$ $16x^3 + 4x^2 + 112x + 28$
209. $(5x + 1)(3x + \sqrt{13}i)(3x - \sqrt{13}i)$ $(5x + 1)(9x^2 + 13)$ $45x^3 + 9x^2 + 65x + 13$
210. $(3x + 2)(2x + \sqrt{21}i)(2x - \sqrt{21}i)$ $(3x + 2)(4x^2 + 21)$ $12x^3 + 8x^2 + 63x + 42$
211. $(3x - 1)(2x + \sqrt{8}i)(2x - \sqrt{8}i)$ $(3x - 1)(4x^2 + 8)$ $12x^3 - 4x^2 + 24x - 8$
212. $(3x + 4)(4x + \sqrt{29}i)(4x - \sqrt{29}i)$ $(3x + 4)(16x^2 + 29)$ $48x^3 + 64x^2 + 87x + 116$
213. $(5x + 4)(2x + \sqrt{3}i)(2x - \sqrt{3}i)$ $(5x + 4)(4x^2 + 3)$ $20x^3 + 16x^2 + 15x + 12$
214. $(x + 4)(2x + \sqrt{7}i)(2x - \sqrt{7}i)$ $(x + 4)(4x^2 + 7)$ $4x^3 + 16x^2 + 7x + 28$
215. $(5x + 1)(3x + \sqrt{10}i)(3x - \sqrt{10}i)$ $(5x + 1)(9x^2 + 10)$ $45x^3 + 9x^2 + 50x + 10$
216. $(3x + 4)(3x + \sqrt{28}i)(3x - \sqrt{28}i)$ $(3x + 4)(9x^2 + 28)$ $27x^3 + 36x^2 + 84x + 112$
217. $(5x - 2)(3x + \sqrt{14}i)(3x - \sqrt{14}i)$ $(5x - 2)(9x^2 + 14)$ $45x^3 - 18x^2 + 70x - 28$

218.	$(3x + 2)(4x + \sqrt{15}i)(4x - \sqrt{15}i)$	$(3x + 2)(16x^2 + 15)$	$48x^3 + 32x^2 + 45x + 30$
219.	$(5x + 1)(2x + \sqrt{14}i)(2x - \sqrt{14}i)$	$(5x + 1)(4x^2 + 14)$	$20x^3 + 4x^2 + 70x + 14$
220.	$(x + 4)(4x + \sqrt{3}i)(4x - \sqrt{3}i)$	$(x + 4)(16x^2 + 3)$	$16x^3 + 64x^2 + 3x + 12$
221.	$(2x - 1)(4x + \sqrt{19}i)(4x - \sqrt{19}i)$	$(2x - 1)(16x^2 + 19)$	$32x^3 - 16x^2 + 38x - 19$
222.	$(x + 3)(4x + \sqrt{30}i)(4x - \sqrt{30}i)$	$(x + 3)(16x^2 + 30)$	$16x^3 + 48x^2 + 30x + 90$
223.	$(4x + 1)(3x + \sqrt{27}i)(3x - \sqrt{27}i)$	$(4x + 1)(9x^2 + 27)$	$36x^3 + 9x^2 + 108x + 27$
224.	$(5x + 2)(3x + \sqrt{8}i)(3x - \sqrt{8}i)$	$(5x + 2)(9x^2 + 8)$	$45x^3 + 18x^2 + 40x + 16$
225.	$(x + 2)(2x + \sqrt{14}i)(2x - \sqrt{14}i)$	$(x + 2)(4x^2 + 14)$	$4x^3 + 8x^2 + 14x + 28$
226.	$(5x - 2)(3x + \sqrt{30}i)(3x - \sqrt{30}i)$	$(5x - 2)(9x^2 + 30)$	$45x^3 - 18x^2 + 150x - 60$
227.	$(x - 2)(3x + \sqrt{17}i)(3x - \sqrt{17}i)$	$(x - 2)(9x^2 + 17)$	$9x^3 - 18x^2 + 17x - 34$
228.	$(3x + 2)(2x + \sqrt{11}i)(2x - \sqrt{11}i)$	$(3x + 2)(4x^2 + 11)$	$12x^3 + 8x^2 + 33x + 22$
229.	$(5x + 1)(4x + \sqrt{17}i)(4x - \sqrt{17}i)$	$(5x + 1)(16x^2 + 17)$	$80x^3 + 16x^2 + 85x + 17$
230.	$(4x + 1)(2x + \sqrt{15}i)(2x - \sqrt{15}i)$	$(4x + 1)(4x^2 + 15)$	$16x^3 + 4x^2 + 60x + 15$
231.	$(x + 4)(3x + \sqrt{13}i)(3x - \sqrt{13}i)$	$(x + 4)(9x^2 + 13)$	$9x^3 + 36x^2 + 13x + 52$
232.	$(3x + 4)(4x + \sqrt{20}i)(4x - \sqrt{20}i)$	$(3x + 4)(16x^2 + 20)$	$48x^3 + 64x^2 + 60x + 80$
233.	$(5x - 2)(2x + \sqrt{25}i)(2x - \sqrt{25}i)$	$(5x - 2)(4x^2 + 25)$	$20x^3 - 8x^2 + 125x - 50$
234.	$(5x + 4)(3x + \sqrt{25}i)(3x - \sqrt{25}i)$	$(5x + 4)(9x^2 + 25)$	$45x^3 + 36x^2 + 125x + 100$
235.	$(x - 2)(4x + \sqrt{5}i)(4x - \sqrt{5}i)$	$(x - 2)(16x^2 + 5)$	$16x^3 - 32x^2 + 5x - 10$
236.	$(5x + 3)(4x + \sqrt{10}i)(4x - \sqrt{10}i)$	$(5x + 3)(16x^2 + 10)$	$80x^3 + 48x^2 + 50x + 30$
237.	$(2x - 1)(4x + \sqrt{10}i)(4x - \sqrt{10}i)$	$(2x - 1)(16x^2 + 10)$	$32x^3 - 16x^2 + 20x - 10$
238.	$(5x - 2)(3x + \sqrt{22}i)(3x - \sqrt{22}i)$	$(5x - 2)(9x^2 + 22)$	$45x^3 - 18x^2 + 110x - 44$
239.	$(x + 2)(2x + \sqrt{15}i)(2x - \sqrt{15}i)$	$(x + 2)(4x^2 + 15)$	$4x^3 + 8x^2 + 15x + 30$
240.	$(x + 3)(2x + \sqrt{16}i)(2x - \sqrt{16}i)$	$(x + 3)(4x^2 + 16)$	$4x^3 + 12x^2 + 16x + 48$
241.	$(x - 2)(4x + \sqrt{13}i)(4x - \sqrt{13}i)$	$(x - 2)(16x^2 + 13)$	$16x^3 - 32x^2 + 13x - 26$
242.	$(3x + 4)(3x + \sqrt{13}i)(3x - \sqrt{13}i)$	$(3x + 4)(9x^2 + 13)$	$27x^3 + 36x^2 + 39x + 52$
243.	$(3x - 2)(2x + \sqrt{27}i)(2x - \sqrt{27}i)$	$(3x - 2)(4x^2 + 27)$	$12x^3 - 8x^2 + 81x - 54$
244.	$(2x + 1)(4x + \sqrt{13}i)(4x - \sqrt{13}i)$	$(2x + 1)(16x^2 + 13)$	$32x^3 + 16x^2 + 26x + 13$
245.	$(2x + 1)(3x + \sqrt{20}i)(3x - \sqrt{20}i)$	$(2x + 1)(9x^2 + 20)$	$18x^3 + 9x^2 + 40x + 20$
246.	$(3x - 2)(4x + \sqrt{19}i)(4x - \sqrt{19}i)$	$(3x - 2)(16x^2 + 19)$	$48x^3 - 32x^2 + 57x - 38$
247.	$(3x - 1)(2x + \sqrt{26}i)(2x - \sqrt{26}i)$	$(3x - 1)(4x^2 + 26)$	$12x^3 - 4x^2 + 78x - 26$
248.	$(3x - 2)(2x + \sqrt{29}i)(2x - \sqrt{29}i)$	$(3x - 2)(4x^2 + 29)$	$12x^3 - 8x^2 + 87x - 58$
249.	$(x - 1)(2x + \sqrt{23}i)(2x - \sqrt{23}i)$	$(x - 1)(4x^2 + 23)$	$4x^3 - 4x^2 + 23x - 23$
250.	$(5x + 2)(2x + \sqrt{30}i)(2x - \sqrt{30}i)$	$(5x + 2)(4x^2 + 30)$	$20x^3 + 8x^2 + 150x + 60$