

COMPLEX NUMBERS

DEFINITION

The Imaginary Unit i is defined as $i^2 = -1$.
Complex Number $a + bi$ where $a, b \in \mathbb{R}$.
If $a = 0$, it is called a pure imaginary number.
If $b = 0$, it is called a real number.

Complex Conjugate

Complex Conjugate of $a + bi$ is $a - bi$.

Modulus (Absolute value) of $a + bi$ is $\sqrt{a^2 + b^2}$.

Argument (Angle) of $a + bi$ is θ where $\tan \theta = \frac{b}{a}$.

Complex Number $a + bi$ can be written as $r(\cos \theta + i \sin \theta)$.

Arithmetic Operations

Addition $(a + bi) + (c + di) = (a + c) + (b + d)i$.

Subtraction $(a + bi) - (c + di) = (a - c) + (b - d)i$.

Multiplication $(a + bi)(c + di) = (ac - bd) + (ad + bc)i$.

Multiplication of Complex Numbers $(a + bi)(c + di) = (ac - bd) + (ad + bc)i$.

Multiplication in Polar Form $r_1(\cos \theta_1 + i \sin \theta_1) \cdot r_2(\cos \theta_2 + i \sin \theta_2) = r_1 r_2 (\cos(\theta_1 + \theta_2) + i \sin(\theta_1 + \theta_2))$.

Division $\frac{a + bi}{c + di} = \frac{(a + bi)(c - di)}{(c + di)(c - di)} = \frac{(ac + bd) + (bc - ad)i}{c^2 + d^2}$.

Division in Polar Form $\frac{r_1(\cos \theta_1 + i \sin \theta_1)}{r_2(\cos \theta_2 + i \sin \theta_2)} = \frac{r_1}{r_2} (\cos(\theta_1 - \theta_2) + i \sin(\theta_1 - \theta_2))$.

Complex Powers of i $i^0 = 1, i^1 = i, i^2 = -1, i^3 = -i, i^4 = 1$.

Examples

Example 1: Simplify $(3 + 4i)(2 - 5i)$.
Solution: $(3 + 4i)(2 - 5i) = 6 - 15i + 8i - 20i^2 = 6 - 7i - 20(-1) = 6 - 7i + 20 = 26 - 7i$.

Example 2: Find the modulus of $5 - 12i$.
Solution: $|5 - 12i| = \sqrt{5^2 + (-12)^2} = \sqrt{25 + 144} = \sqrt{169} = 13$.

Example 3: Find the argument of $1 + i$.
Solution: $\tan \theta = \frac{1}{1} = 1 \Rightarrow \theta = 45^\circ$.

Key Points

1. $i^2 = -1$.
2. $(a + bi)(a - bi) = a^2 + b^2$.
3. $(a + bi)^2 = a^2 - b^2 + 2abi$.
4. $(a + bi)^3 = a^3 - 3ab^2 + (3a^2b - b^3)i$.
5. $(a + bi)^4 = a^4 - 6a^2b^2 + b^4 + (4a^3b - 4ab^3)i$.
6. $(a + bi)^5 = a^5 - 10a^3b^2 + 5ab^4 + (5a^4b - 10a^2b^3 + b^5)i$.
7. $(a + bi)^6 = a^6 - 15a^4b^2 + 6a^2b^4 - b^6 + (-6a^5b + 15a^3b^3 - 6ab^5)i$.
8. $(a + bi)^7 = a^7 - 21a^5b^2 + 14a^3b^4 - b^7 + (7a^6b - 35a^4b^3 + 21a^2b^5 - b^7)i$.
9. $(a + bi)^8 = a^8 - 28a^6b^2 + 14a^4b^4 - b^8 + (-28a^7b + 56a^5b^3 - 28a^3b^5 + b^7)i$.
10. $(a + bi)^9 = a^9 - 36a^7b^2 + 27a^5b^4 - 3b^9 + (27a^8b - 126a^6b^3 + 126a^4b^5 - 3b^9)i$.

11. $(a + bi)^{10} = a^{10} - 45a^8b^2 + 45a^6b^4 - 6a^4b^6 + b^{10} + (-45a^9b + 135a^7b^3 - 135a^5b^5 + 15a^3b^7 - b^9)i$.

12. $(a + bi)^{11} = a^{11} - 55a^9b^2 + 44a^7b^4 - 11a^5b^6 + b^{11} + (-55a^{10}b + 165a^8b^3 - 165a^6b^5 + 11a^4b^7 - b^9)i$.

13. $(a + bi)^{12} = a^{12} - 66a^{10}b^2 + 132a^8b^4 - 66a^6b^6 + b^{12} + (-66a^{11}b + 198a^9b^3 - 198a^7b^5 + 66a^5b^7 - b^9)i$.

14. $(a + bi)^{13} = a^{13} - 78a^{11}b^2 + 143a^9b^4 - 78a^7b^6 + b^{13} + (-78a^{12}b + 243a^{10}b^3 - 243a^8b^5 + 78a^6b^7 - b^9)i$.

15. $(a + bi)^{14} = a^{14} - 91a^{12}b^2 + 182a^{10}b^4 - 91a^8b^6 + b^{14} + (-91a^{13}b + 273a^{11}b^3 - 273a^9b^5 + 91a^7b^7 - b^9)i$.

16. $(a + bi)^{15} = a^{15} - 105a^{13}b^2 + 210a^{11}b^4 - 105a^9b^6 + b^{15} + (-105a^{14}b + 315a^{12}b^3 - 315a^{10}b^5 + 105a^8b^7 - b^9)i$.

17. $(a + bi)^{16} = a^{16} - 120a^{14}b^2 + 240a^{12}b^4 - 120a^{10}b^6 + b^{16} + (-120a^{15}b + 360a^{13}b^3 - 360a^{11}b^5 + 120a^9b^7 - b^9)i$.

18. $(a + bi)^{17} = a^{17} - 136a^{15}b^2 + 272a^{13}b^4 - 136a^{11}b^6 + b^{17} + (-136a^{16}b + 408a^{14}b^3 - 408a^{12}b^5 + 136a^{10}b^7 - b^9)i$.

19. $(a + bi)^{18} = a^{18} - 153a^{16}b^2 + 306a^{14}b^4 - 153a^{12}b^6 + b^{18} + (-153a^{17}b + 459a^{15}b^3 - 459a^{13}b^5 + 153a^{11}b^7 - b^9)i$.

20. $(a + bi)^{19} = a^{19} - 171a^{17}b^2 + 342a^{15}b^4 - 171a^{13}b^6 + b^{19} + (-171a^{18}b + 513a^{16}b^3 - 513a^{14}b^5 + 171a^{12}b^7 - b^9)i$.

21. $(a + bi)^{20} = a^{20} - 190a^{18}b^2 + 380a^{16}b^4 - 190a^{14}b^6 + b^{20} + (-190a^{19}b + 570a^{17}b^3 - 570a^{15}b^5 + 190a^{13}b^7 - b^9)i$.

22. $(a + bi)^{21} = a^{21} - 210a^{19}b^2 + 420a^{17}b^4 - 210a^{15}b^6 + b^{21} + (-210a^{20}b + 630a^{18}b^3 - 630a^{16}b^5 + 210a^{14}b^7 - b^9)i$.

23. $(a + bi)^{22} = a^{22} - 231a^{20}b^2 + 462a^{18}b^4 - 231a^{16}b^6 + b^{22} + (-231a^{21}b + 693a^{19}b^3 - 693a^{17}b^5 + 231a^{15}b^7 - b^9)i$.

24. $(a + bi)^{23} = a^{23} - 253a^{21}b^2 + 506a^{19}b^4 - 253a^{17}b^6 + b^{23} + (-253a^{22}b + 759a^{20}b^3 - 759a^{18}b^5 + 253a^{16}b^7 - b^9)i$.

25. $(a + bi)^{24} = a^{24} - 276a^{22}b^2 + 552a^{20}b^4 - 276a^{18}b^6 + b^{24} + (-276a^{23}b + 828a^{21}b^3 - 828a^{19}b^5 + 276a^{17}b^7 - b^9)i$.

26. $(a + bi)^{25} = a^{25} - 300a^{23}b^2 + 600a^{21}b^4 - 300a^{19}b^6 + b^{25} + (-300a^{24}b + 900a^{22}b^3 - 900a^{20}b^5 + 300a^{18}b^7 - b^9)i$.

27. $(a + bi)^{26} = a^{26} - 322a^{24}b^2 + 644a^{22}b^4 - 322a^{20}b^6 + b^{26} + (-322a^{25}b + 966a^{23}b^3 - 966a^{21}b^5 + 322a^{19}b^7 - b^9)i$.

28. $(a + bi)^{27} = a^{27} - 342a^{25}b^2 + 684a^{23}b^4 - 342a^{21}b^6 + b^{27} + (-342a^{26}b + 1026a^{24}b^3 - 1026a^{22}b^5 + 342a^{20}b^7 - b^9)i$.

29. $(a + bi)^{28} = a^{28} - 364a^{26}b^2 + 728a^{24}b^4 - 364a^{22}b^6 + b^{28} + (-364a^{27}b + 1092a^{25}b^3 - 1092a^{23}b^5 + 364a^{21}b^7 - b^9)i$.

30. $(a + bi)^{29} = a^{29} - 385a^{27}b^2 + 770a^{25}b^4 - 385a^{23}b^6 + b^{29} + (-385a^{28}b + 1155a^{26}b^3 - 1155a^{24}b^5 + 385a^{22}b^7 - b^9)i$.

31. $(a + bi)^{30} = a^{30} - 406a^{28}b^2 + 812a^{26}b^4 - 406a^{24}b^6 + b^{30} + (-406a^{29}b + 1218a^{27}b^3 - 1218a^{25}b^5 + 406a^{23}b^7 - b^9)i$.

32. $(a + bi)^{31} = a^{31} - 427a^{29}b^2 + 854a^{27}b^4 - 427a^{25}b^6 + b^{31} + (-427a^{30}b + 1281a^{28}b^3 - 1281a^{26}b^5 + 427a^{24}b^7 - b^9)i$.

33. $(a + bi)^{32} = a^{32} - 448a^{30}b^2 + 896a^{28}b^4 - 448a^{26}b^6 + b^{32} + (-448a^{31}b + 1344a^{29}b^3 - 1344a^{27}b^5 + 448a^{25}b^7 - b^9)i$.

34. $(a + bi)^{33} = a^{33} - 469a^{31}b^2 + 938a^{29}b^4 - 469a^{27}b^6 + b^{33} + (-469a^{32}b + 1407a^{30}b^3 - 1407a^{28}b^5 + 469a^{26}b^7 - b^9)i$.

35. $(a + bi)^{34} = a^{34} - 490a^{32}b^2 + 980a^{30}b^4 - 490a^{28}b^6 + b^{34} + (-490a^{33}b + 1470a^{31}b^3 - 1470a^{29}b^5 + 490a^{27}b^7 - b^9)i$.

36. $(a + bi)^{35} = a^{35} - 511a^{33}b^2 + 1022a^{31}b^4 - 511a^{29}b^6 + b^{35} + (-511a^{34}b + 1533a^{32}b^3 - 1533a^{30}b^5 + 511a^{28}b^7 - b^9)i$.

37. $(a + bi)^{36} = a^{36} - 532a^{34}b^2 + 1064a^{32}b^4 - 532a^{30}b^6 + b^{36} + (-532a^{35}b + 1596a^{33}b^3 - 1596a^{31}b^5 + 532a^{29}b^7 - b^9)i$.

38. $(a + bi)^{37} = a^{37} - 553a^{35}b^2 + 1106a^{33}b^4 - 553a^{31}b^6 + b^{37} + (-553a^{36}b + 1659a^{34}b^3 - 1659a^{32}b^5 + 553a^{30}b^7 - b^9)i$.

39. $(a + bi)^{38} = a^{38} - 574a^{36}b^2 + 1148a^{34}b^4 - 574a^{32}b^6 + b^{38} + (-574a^{37}b + 1722a^{35}b^3 - 1722a^{33}b^5 + 574a^{31}b^7 - b^9)i$.

40. $(a + bi)^{39} = a^{39} - 595a^{37}b^2 + 1190a^{35}b^4 - 595a^{33}b^6 + b^{39} + (-595a^{38}b + 1785a^{36}b^3 - 1785a^{34}b^5 + 595a^{32}b^7 - b^9)i$.

41. $(a + bi)^{40} = a^{40} - 616a^{38}b^2 + 1232a^{36}b^4 - 616a^{34}b^6 + b^{40} + (-616a^{39}b + 1848a^{37}b^3 - 1848a^{35}b^5 + 616a^{33}b^7 - b^9)i$.

42. $(a + bi)^{41} = a^{41} - 637a^{39}b^2 + 1274a^{37}b^4 - 637a^{35}b^6 + b^{41} + (-637a^{40}b + 1911a^{38}b^3 - 1911a^{36}b^5 + 637a^{34}b^7 - b^9)i$.

43. $(a + bi)^{42} = a^{42} - 658a^{40}b^2 + 1316a^{38}b^4 - 658a^{36}b^6 + b^{42} + (-658a^{41}b + 1974a^{39}b^3 - 1974a^{37}b^5 + 658a^{35}b^7 - b^9)i$.

44. $(a + bi)^{43} = a^{43} - 679a^{41}b^2 + 1358a^{39}b^4 - 679a^{37}b^6 + b^{43} + (-679a^{42}b + 2037a^{40}b^3 - 2037a^{38}b^5 + 679a^{36}b^7 - b^9)i$.

45. $(a + bi)^{44} = a^{44} - 700a^{42}b^2 + 1400a^{40}b^4 - 700a^{38}b^6 + b^{44} + (-700a^{43}b + 2100a^{41}b^3 - 2100a^{39}b^5 + 700a^{37}b^7 - b^9)i$.

46. $(a + bi)^{45} = a^{45} - 721a^{43}b^2 + 1442a^{41}b^4 - 721a^{39}b^6 + b^{45} + (-721a^{44}b + 2163a^{42}b^3 - 2163a^{40}b^5 + 721a^{38}b^7 - b^9)i$.

47. $(a + bi)^{46} = a^{46} - 742a^{44}b^2 + 1484a^{42}b^4 - 742a^{40}b^6 + b^{46} + (-742a^{45}b + 2226a^{43}b^3 - 2226a^{41}b^5 + 742a^{39}b^7 - b^9)i$.

48. $(a + bi)^{47} = a^{47} - 763a^{45}b^2 + 1526a^{43}b^4 - 763a^{41}b^6 + b^{47} + (-763a^{46}b + 2289a^{44}b^3 - 2289a^{42}b^5 + 763a^{40}b^7 - b^9)i$.

49. $(a + bi)^{48} = a^{48} - 784a^{46}b^2 + 1568a^{44}b^4 - 784a^{42}b^6 + b^{48} + (-784a^{47}b + 2352a^{45}b^3 - 2352a^{43}b^5 + 784a^{41}b^7 - b^9)i$.

50. $(a + bi)^{49} = a^{49} - 805a^{47}b^2 + 1610a^{45}b^4 - 805a^{43}b^6 + b^{49} + (-805a^{48}b + 2415a^{46}b^3 - 2415a^{44}b^5 + 805a^{42}b^7 - b^9)i$.

51. $(a + bi)^{50} = a^{50} - 826a^{48}b^2 + 1652a^{46}b^4 - 826a^{44}b^6 + b^{50} + (-826a^{49}b + 2478a^{47}b^3 - 2478a^{45}b^5 + 826a^{43}b^7 - b^9)i$.

52. $(a + bi)^{51} = a^{51} - 847a^{49}b^2 + 1694a^{47}b^4 - 847a^{45}b^6 + b^{51} + (-847a^{50}b + 2541a^{48}b^3 - 2541a^{46}b^5 + 847a^{44}b^7 - b^9)i$.

53. $(a + bi)^{52} = a^{52} - 868a^{50}b^2 + 1736a^{48}b^4 - 868a^{46}b^6 + b^{52} + (-868a^{51}b + 2604a^{49}b^3 - 2604a^{47}b^5 + 868a^{45}b^7 - b^9)i$.

54. $(a + bi)^{53} = a^{53} - 889a^{51}b^2 + 1778a^{49}b^4 - 889a^{47}b^6 + b^{53} + (-889a^{52}b + 2667a^{50}b^3 - 2667a^{48}b^5 + 889a^{46}b^7 - b^9)i$.

55. $(a + bi)^{54} = a^{54} - 910a^{52}b^2 + 1820a^{50}b^4 - 910a^{48}b^6 + b^{54} + (-910a^{53}b + 2730a^{51}b^3 - 2730a^{49}b^5 + 910a^{47}b^7 - b^9)i$.

56. $(a + bi)^{55} = a^{55} - 931a^{53}b^2 + 1862a^{51}b^4 - 931a^{49}b^6 + b^{55} + (-931a^{54}b + 2793a^{52}b^3 - 2793a^{50}b^5 + 931a^{48}b^7 - b^9)i$.

57. $(a + bi)^{56} = a^{56} - 952a^{54}b^2 + 1904a^{52}b^4 - 952a^{50}b^6 + b^{56} + (-952a^{55}b + 2856a^{53}b^3 - 2856a^{51}b^5 + 952a^{49}b^7 - b^9)i$.

58. $(a + bi)^{57} = a^{57} - 973a^{55}b^2 + 1946a^{53}b^4 - 973a^{51}b^6 + b^{57} + (-973a^{56}b + 2919a^{54}b^3 - 2919a^{52}b^5 + 973a^{50}b^7 - b^9)i$.

59. $(a + bi)^{58} = a^{58} - 994a^{56}b^2 + 1988a^{54}b^4 - 994a^{52}b^6 + b^{58} + (-994a^{57}b + 2982a^{55}b^3 - 2982a^{53}b^5 + 994a^{51}b^7 - b^9)i$.

60. $(a + bi)^{59} = a^{59} - 1015a^{57}b^2 + 2030a^{55}b^4 - 1015a^{53}b^6 + b^{59} + (-1015a^{58}b + 3045a^{56}b^3 - 3045a^{54}b^5 + 1015a^{52}b^7 - b^9)i$.

61. $(a + bi)^{60} = a^{60} - 1036a^{58}b^2 + 2072a^{56}b^4 - 1036a^{54}b^6 + b^{60} + (-1036a^{59}b + 3108a^{57}b^3 - 3108a^{55}b^5 + 1036a^{53}b^7 - b^9)i$.

62. $(a + bi)^{61} = a^{61} - 1057a^{59}b^2 + 2114a^{57}b^4 - 1057a^{55}b^6 + b^{61} + (-1057a^{60}b + 3171a^{58}b^3 - 3171a^{56}b^5 + 1057a^{54}b^7 - b^9)i$.

63. $(a + bi)^{62} = a^{62} - 1078a^{60}b^2 + 2156a^{58}b^4 - 1078a^{56}b^6 + b^{62} + (-1078a^{61}b + 3234a^{59}b^3 - 3234a^{57}b^5 + 1078a^{55}b^7 - b^9)i$.

64. $(a + bi)^{63} = a^{63} - 1099a^{61}b^2 + 2198a^{59}b^4 - 1099a^{57}b^6 + b^{63} + (-1099a^{62}b + 3297a^{60}b^3 - 3297a^{58}b^5 + 1099a^{56}b^7 - b^9)i$.

65. $(a + bi)^{64} = a^{64} - 1120a^{62}b^2 + 2240a^{60}b^4 - 1120a^{58}b^6 + b^{64} + (-1120a^{63}b + 3360a^{61}b^3 - 3360a^{59}b^5 + 1120a^{57}b^7 - b^9)i$.

66. $(a + bi)^{65} = a^{65} - 1141a^{63}b^2 + 2282a^{61}b^4 - 1141a^{59}b^6 + b^{65} + (-1141a^{64}b + 3423a^{62}b^3 - 3423a^{60}b^5 + 1141a^{58}b^7 - b^9)i$.

67. $(a + bi)^{66} = a^{66} - 1162a^{64}b^2 + 2324a^{62}b^4 - 1162a^{60}b^6 + b^{66} + (-1162a^{65}b + 3486a^{63}b^3 - 3486a^{61}b^5 + 1162a^{59}b^7 - b^9)i$.

68. $(a + bi)^{67} = a^{67} - 1183a^{65}b^2 + 2366a^{63}b^4 - 1183a^{61}b^6 + b^{67} + (-1183a^{66}b + 3549a^{64}b^3 - 3549a^{62}b^5 + 1183a^{60}b^7 - b^9)i$.

69. $(a + bi)^{68} = a^{68} - 1204a^{66}b^2 + 2408a^{64}b^4 - 1204a^{62}b^6 + b^{68} + (-1204a^{67}b + 3612a^{65}b^3 - 3612a^{63}b^5 + 1204a^{61}b^7 - b^9)i$.

70. $(a + bi)^{69} = a^{69} - 1225a^{67}b^2 + 2450a^{65}b^4 - 1225a^{63}b^6 + b^{69} + (-1225a^{68}b + 3675a^{66}b^3 - 3675a^{64}b^5 + 1225a^{62}b^7 - b^9)i$.

71. $(a + bi)^{70} = a^{70} - 1246a^{68}b^2 + 2492a^{66}b^4 - 1246a^{64}b^6 + b^{70} + (-1246a^{69}b + 3738a^{67}b^3 - 3738a^{65}b^5 + 1246a^{63}b^7 - b^9)i$.

72. $(a + bi)^{71} = a^{71} - 1267a^{69}b^2 + 2534a^{67}b^4 - 1267a^{65}b^6 + b^{71} + (-1267a^{70}b + 3801a^{68}b^3 - 3801a^{66}b^5 + 1267a^{64}b^7 - b^9)i$.

73. $(a + bi)^{72} = a^{72} - 1288a^{70}b^2 + 2576a^{68}b^4 - 1288a^{66}b^6 + b^{72} + (-1288a^{71}b + 3864a^{69}b^3 - 3864a^{67}b^5 + 1288a^{65}b^7 - b^9)i$.

Intermediate Algebra Study Guide

Léo Pomar



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