

Complex Multiplication and Division

Multiply/Divide the following complex numbers.

1. $3i \cdot 4i$

2. $2i \cdot 5i$

3. $-2i \cdot 5i$

4. $-5i \cdot 6i$

5. $(-5i) \cdot (-4i)$

6. $(-2i) \cdot (-5i)$

7. $3i(1-4i)$

8. $-3i(1+5i)$

9. $-6i(2-5i)$

10. $-6i(-2+5i)$

11. $-3i(-8+i)$

12. $-5i(-8-3i)$

13. $(2-i)(3+i)$

14. $(2+i)(3+2i)$

15. $(2+i)(3-2i)$

16. $(5+4i)(1-2i)$

17. $(5-4i)(1-2i)$

18. $(5-2i)(1+2i)$

19. $(3+i)(3-i)$

20. $(5+i)(5-i)$

21. $(5-2i)(5+2i)$

22. $(4-2i)(4+2i)$

23. $(6+5i)(6-5i)$

24. $(7+3i)(7-3i)$

25. $(2+3i)(2-3i)$

26. $(5+i)(5-i)$

27. $\frac{3}{i}$

28. $\frac{2}{i}$

29. $\frac{2}{3i}$

30. $\frac{2}{5i}$

31. $\frac{6}{5i}$

32. $\frac{3}{7i}$

$$33. \frac{10+6i}{2}$$

$$34. \frac{10+8i}{2}$$

$$35. \frac{10+6i}{2i}$$

$$36. \frac{20+8i}{4i}$$

$$37. \frac{25-15i}{5i}$$

$$38. \frac{30-10i}{5i}$$

$$39. \frac{4-10i}{5}$$

$$40. \frac{6-10i}{3}$$

$$41. \frac{2-10i}{4i}$$

$$42. \frac{1-10i}{4i}$$

$$43. \frac{6+10i}{3}$$

$$44. \frac{14+3i}{7}$$

$$45. \frac{3i}{1+2i}$$

$$46. \frac{2i}{1-2i}$$

$$47. \frac{-2i}{3-2i}$$

$$48. \frac{-5i}{1+2i}$$

$$49. \frac{6i}{1-4i}$$

$$50. \frac{3i}{1-4i}$$

$$51. \frac{2+3i}{1-4i}$$

$$52. \frac{2-3i}{1+5i}$$

$$53. \frac{1+i}{3+5i}$$

$$54. \frac{6+i}{3-2i}$$