

Multiplying Complex Numbers

Multiply

① $(-10 + 8i)(9 + 11i)$

② $(7 - 6i)^2$

③ $(8 - 3i)(4 - i)$

④ $(2 + \sqrt{-4})(3 + 5i)(-4 - i)$

⑤ $4i(\sqrt{3} - 5i)$

⑥ $(10 - \sqrt{-9})^2$

⑦ $9i(4i - 12)$

⑧ $(-4 - i)(6 + 5i)8i$

⑨ $(11 - 6i)(5 + 2i)$

⑩ $(-1 + i)(-6i - 5)$

⑪ $(-3i)(i)(13i)$

⑫ $(-15 - 9i)(2\sqrt{2})$

⑬ $(-1 + 8i)(-1 + 8i)$

⑭ $(-9 + 3i)(-9 - 3i)$

⑮ $(10i)(15i)$

Multiplying Complex Numbers

Answers

1 $(-10 + 8i)(9 + 11i)$

2 $(7 - 6i)^2$

3 $(8 - 3i)(4 - i)$

-178 - 38i

13 - 84i

29 - 20i

4 $(2 + \sqrt{-4})(3 + 5i)(-4 - i)$

5 $4i(\sqrt{3} - 5i)$

6 $(10 - \sqrt{-9})^2$

32 - 60i

20 + 4\sqrt{3}i

91 - 60i

7 $9i(4i - 12)$

8 $(-4 - i)(6 + 5i)8i$

9 $(11 - 6i)(5 + 2i)$

-36 - 108i

208 - 152i

67 - 8i

10 $(-1 + i)(-6i - 5)$

11 $(-3i)(i)(13i)$

12 $(-15 - 9i)(2\sqrt{2})$

11 + i

39i

-30\sqrt{2} - 18\sqrt{2}i

13 $(-1 + 8i)(-1 + 8i)$

14 $(-9 + 3i)(-9 - 3i)$

15 $(10i)(15i)$

-63 - 16i

90

-150