

Name:

Date: Score:

Adding and Subtracting Complex Numbers

Simplify

① $(3i) - (2i) =$ _____

② $(7i) - (-10 + 4i) =$ _____

③ $(3 + 6i) + (4 + i) =$ _____

④ $(9 - 6i) - (12 + 2i) =$ _____

⑤ $(5 + 6i) + (7 - 2i) =$ _____

⑥ $(4 + 12i) + (3 - 7i) =$ _____

⑦ $(-10i) + (2 - 6i) + 10 =$ _____

⑧ $(10 + 8i) + (6 + 6i) =$ _____

⑨ $(8 + 6i) + (-8i) =$ _____

⑩ $(8 + 8i) + (5 + 3i) =$ _____

⑪ $(-5 + 7i) - (-8 - i) =$ _____

⑫ $(-8 + 6i) + (6 - 6i) =$ _____

⑬ $(1 + i) - (1 - i) =$ _____

⑭ $(-7 - 7i) - (-7 - 3i) =$ _____

⑮ $(6 - 8i) - (7 - 3i) =$ _____

⑯ $(1 + 4i) + (6 - 2i) =$ _____

⑰ $-2 + (-8 - 6i) - 9 =$ _____

⑱ $(-4 - 6i) - (4 + 5i) - 2 =$ _____

Name:

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Adding and Subtracting Complex Numbers

Answers

① $(3i) - (2i) = \underline{i}$

② $(7i) - (-10 + 4i) = \underline{10 + 3i}$

③ $(3 + 6i) + (4 + i) = \underline{7 + 7i}$

④ $(9 - 6i) - (12 + 2i) = \underline{-3 - 8i}$

⑤ $(5 + 6i) + (7 - 2i) = \underline{12 + 4i}$

⑥ $(4 + 12i) + (3 - 7i) = \underline{7 + 5i}$

⑦ $(-10i) + (2 - 6i) + 10 = \underline{12 - 16i}$

⑧ $(10 + 8i) + (6 + 6i) = \underline{16 + 14i}$

⑨ $(8 + 6i) + (-8i) = \underline{8 - 2i}$

⑩ $(8 + 8i) + (5 + 3i) = \underline{13 + 11i}$

⑪ $(-5 + 7i) - (-8 - i) = \underline{3 + 8i}$

⑫ $(-8 + 6i) + (6 - 6i) = \underline{-2}$

⑬ $(1 + i) - (1 - i) = \underline{2i}$

⑭ $(-7 - 7i) - (-7 - 3i) = \underline{-4i}$

⑮ $(6 - 8i) - (7 - 3i) = \underline{-1 - 5i}$

⑯ $(1 + 4i) + (6 - 2i) = \underline{7 + 2i}$

⑰ $-2 + (-8 - 6i) - 9 = \underline{-19 - 6i}$

⑱ $(-4 - 6i) - (4 + 5i) - 2 = \underline{-10 - 11i}$