

Name _____ Date _____

Operations with Complex Numbers

Perform the indicated operation for each problem below. Be sure to simplify as much as possible and write your answers in standard form. Show all work.

1. $(2 + 3i) + (8 - i)$	2. $(3 + 5i) - (2 - 7i)$
3. $(\sqrt{3} + i) - (2\sqrt{3} - 2i)$	4. $\sqrt{-45} - \sqrt{-5} + \sqrt{-35}$
5. $(3 + i)(2 - 4i)$	6. $\left(\frac{1}{2} - i\right)\left(\frac{1}{2} + 2i\right)$
7. i^{24}	8. $i(-i)^{24}$
9. $\frac{1}{i}$	10. $\frac{i}{9 - 2i}$
11. $(2 - 6i) - (8 + 3i)$	12. i^{-10}
13. $\frac{2+i}{i}$	14. $\frac{1}{(2-i)(2+i)}$

Algebra Operations Of Complex Numbers Answer Key

Nathaniel Max Rock



Algebra Operations Of Complex Numbers Answer Key:

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