Algebra 2 Name_____ ID: 1

Practice - Working backwards with complex numbers

The answers to the following problems are provided. Find the missing real or imaginary part of the problem.

1) $(-7i) - (\_\_) =$

$-15i$

2) $(4 - \_\_) + 6 =$

$10 - 6i$

3) $-2 + (\_\_ - 2i) =$

$1 - 2i$

4) $(6 + 2i) - \_\_ =$

$2i$

5) $(\_\_)(-8i) =$

24

6) $(-3i)(\_\_ - i) =$

$-3 - 12i$

7) $\_\_(7 + 2i) =$

$-56 - 16i$

8) $(\_\_)(-5i) =$

25

9) $(5 - 5i) + (\_\_ - 6i) =$

$-1 - 11i$

10) $(-8 - \_\_) - (4 - 2i) =$

$-12 - 5i$

11) $(\_\_ + 5i) - (-8 + 6i) =$

$5 - i$

12) $(-3 - i) + (6 - \_\_) =$

$3 - 9i$

13) $(2 - 3i)(\_\_ - i) =$

$1 - 8i$

14) $(1 + 2i)(3 - \_\_) =$

$5 + 5i$

15) $(\_\_ + i)(-3 + 3i)$

-6

16) $(-3 - \_\_)(-3 + i)$

$12 + 6i$