

13.2 Operations with Complex Numbers Practice

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Simplify.

1) $(3 - 2i) + (1 + i)$

2) $2 + 7 + (-6 - 6i)$

3) $(6 - 8i) - (8 - i)$

4) $(-2 - 5i) - (-3 + 3i)$

5) $(8i) + (6 + 4i) + (7i)$

6) $(-7 - 8i) - (-5 - 8i)$

7) $(-i)(-6i)(3 - 8i)$

8) $(-8 + 8i)^2$

9) $(3 + i)(-6 - i)$

10) $(-5 + 7i)(6 - 8i)$

11) $(-8i)(5i)(-2 + 8i)$

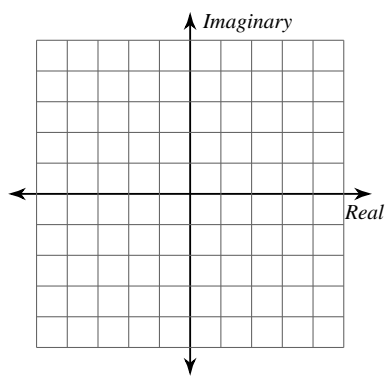
12) $(-4 - i)(-7 - 5i)$

13) $(-3 - 4i)(-4 - 7i)$

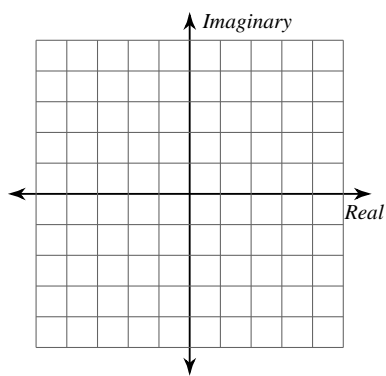
14) $-5(5i)(-8 - 8i)$

Graph each number in the complex plane.

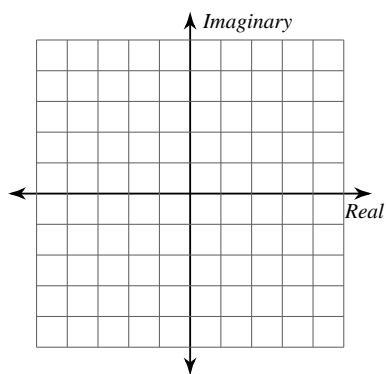
15) $-4 - 2i$



16) $3 + 2i$



17) $-5 + 4i$



Simplify.

18) $\frac{7 + 5i}{-5 - 7i}$

19) $\frac{4 + 8i}{-2 - i}$

20) $\frac{-9 + 6i}{-3i}$

21) $\frac{-10 - 8i}{4 + i}$

22) $\frac{9 - 9i}{3 + 9i}$

23) $\frac{2 + 8i}{4i}$