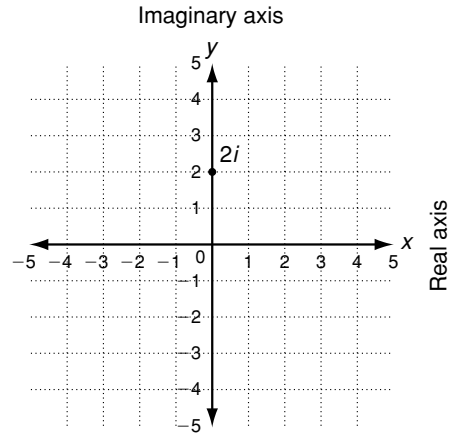


LESSON **5-9** **Practice A**
Operations with Complex Numbers

Graph each complex number.
 The first one is done for you.

1. $2i$
2. $-4i$
3. $3 + i$
4. $-3 - 2i$
5. $2 + 3i$
6. $4 - 4i$



Find each absolute value. The first one is done for you.

7. $|6 + 2i|$

8. $|3 + i|$

9. $|3 - 4i|$

_____ $2\sqrt{10}$ _____

Add or subtract. Write the result in the form $a + bi$.
 The first one is done for you.

10. $6i + 4i$

11. $-i - 3i$

_____ $10i$ _____

12. $(1 + 2i) + (3 + 4i)$

13. $(2 - 7i) - (5 - 3i)$

Multiply. Write the result in the form $a + bi$.
 The first one is done for you.

14. $2(3i)$

15. $-4(5i)$

_____ $6i$ _____

16. $2i(3 + 5i)$

17. $(3 + i)(1 - 4i)$

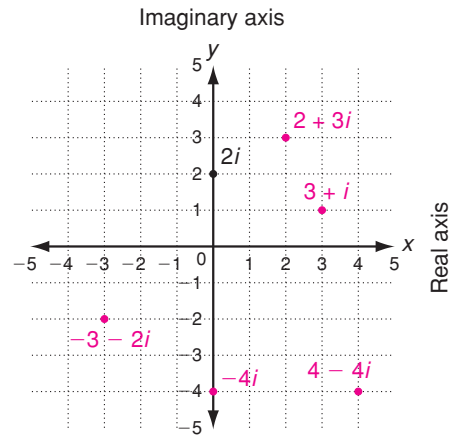
Simplify.

18. i^7

19. $\frac{2 + 5i}{3i}$

LESSON **5-9** **Practice A**
Operations with Complex Numbers

Graph each complex number.
 The first one is done for you.



1. $2i$
2. $-4i$
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Find each absolute value. The first one is done for you.

7. $|6 + 2i|$

 $2\sqrt{10}$

8. $|3 + i|$

 $\sqrt{10}$

9. $|3 - 4i|$

 5

Add or subtract. Write the result in the form $a + bi$.
 The first one is done for you.

10. $6i + 4i$

 $10i$

11. $-i - 3i$

 $-4i$

12. $(1 + 2i) + (3 + 4i)$

 $4 + 6i$

13. $(2 - 7i) - (5 - 3i)$

 $-3 - 4i$

Multiply. Write the result in the form $a + bi$.
 The first one is done for you.

14. $2(3i)$

 $6i$

15. $-4(5i)$

 $-20i$

16. $2i(3 + 5i)$

 $-10 + 6i$

17. $(3 + i)(1 - 4i)$

 $7 - 11i$

Simplify.

18. i^7

 $-i$

19. $\frac{2 + 5i}{3i}$

 $\frac{5}{3} - \frac{2}{3}i$