

Exercise Set A

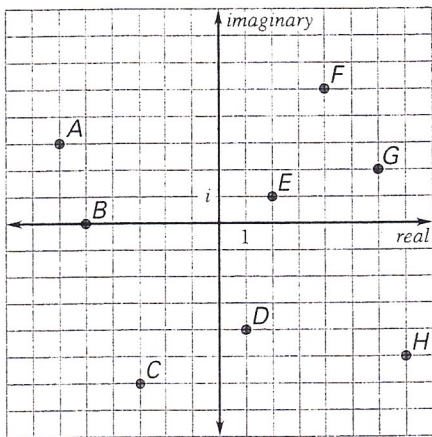


MM2N1b Write complex numbers in the form $a + bi$.

MM2N1d Simplify expressions involving complex numbers.

Match the complex number with the correct letter on the graph.

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|-------------|--------------|-------------|-------------|
| 1. $2 + i$ | 2. $-3 - 6i$ | 3. $1 - 4i$ | 4. -5 |
| 5. $4 + 5i$ | 6. $-6 + 3i$ | 7. $6 + 2i$ | 8. $7 - 5i$ |



Find the absolute value of the complex number.

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|----------------------|-------------------------------|
| 9. $5 - 2i$ | 10. $5 + 12i$ |
| 11. $-3 - 4i$ | 12. $2 + 3i$ |
| 13. $2 - 6i$ | 14. $6 - 5i$ |
| 15. $1 + 2i$ | 16. $9 + 40i$ |
| 17. $5i$ | 18. $-2 + 12i$ |
| 19. $4 + 6i$ | 20. $-5 - i$ |
| 21. $-2 + i$ | 22. $-7 - 5i$ |
| 23. $-3 - 11i$ | 24. $2i$ |
| 25. $-2 - 5i$ | 26. $1 - 4i$ |
| 27. $2 - 7i$ | 28. $-2 + 3i$ |
| 29. $5 + 4i$ | 30. $4 - 2i$ |
| 31. $\sqrt{5} + 2i$ | 32. $\sqrt{11} + 5i$ |
| 33. $2 - i\sqrt{21}$ | 34. $-\sqrt{23} + i\sqrt{26}$ |
35. What is the absolute value of $a - bi$?
36. Is every complex number an imaginary number? *Explain.*