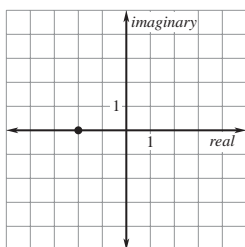
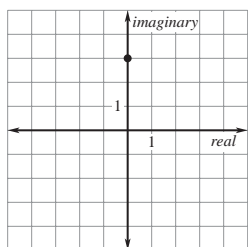


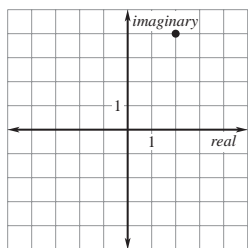
Answer Key

Practice B

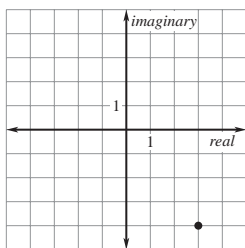
1. $-8i, 8i$ 2. $-i, i$ 3. $-3, 3$
 4. $-2i\sqrt{3}, 2i\sqrt{3}$ 5. $-4i\sqrt{3}, 4i\sqrt{3}$
 6. $-3i\sqrt{3}, 3i\sqrt{3}$ 7. $-3i, 3i$ 8. $-2i, 2i$
 9. $-\frac{1}{3}i, \frac{1}{3}i$ 10. $-1 - 6i, -1 + 6i$
 11. $2 - \frac{1}{2}i, 2 + \frac{1}{2}i$ 12. $-5 - 7i, -5 + 7i$
 13. 14.



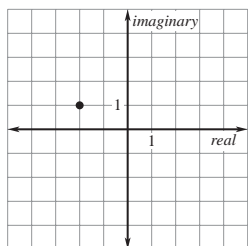
15.



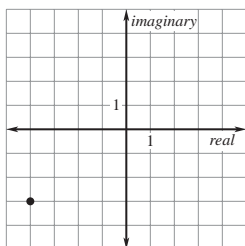
16.



17.



18.



19. $-2 + 10i$ 20. $1 - 10i$ 21. $1 - \frac{3}{2}i$
 22. $5 - 3i$ 23. $3 - 17i$ 24. $-\frac{1}{6} - \frac{5}{12}i$
 25. $39 + 18i$ 26. $-21 + 20i$ 27. 80
 28. $\frac{12}{13} - \frac{18}{13}i$ 29. $-1 - i$
 30. $\frac{2\sqrt{3} + 1}{4} + \frac{2 - \sqrt{3}}{4}i$ 31. 4
 32. $-\frac{201}{34} + \frac{73}{34}i$ 33. $3 - 12i$ 34. 5
 35. $\sqrt{3}$ 36. $\sqrt{5}$ 37. i 38. -1 39. $-i$
 40. 1 41. i 42. -1 43. $-i$ 44. 1
 45. If the exponent of i is a factor of 4, the expression can be reduced to 1. Therefore, to simplify i raised to any natural number, factor out the multiples of 4 in the exponent and simplify the remaining expression; $i^{231} = i^{228} \cdot i^3 = (1)i^3 = -i$.