

Unit 8 Day E Complex Number Practice Part 1 Answer Key:

1. $8\sqrt{10}$ 2. $-7i\sqrt{2}+7i$ 3. $\frac{2i}{-7}$ 4. $\frac{-1+3i}{5}$ 5. $18-10i$ 6. $-5i\sqrt{3}$ 7. i
8. $\frac{21+3i\sqrt{3}+14i-2\sqrt{3}}{52}$ 9. $4\sqrt{15}+32i\sqrt{6}-i\sqrt{10}+16$ 10. $48-22i$ 11. $-7+16i$
12. $1+6i$ 13. $-32i$ 14. i 15. $2-2i$ 16. $-23+12i\sqrt{3}$ 17. 1 18. $\frac{-11+4i\sqrt{3}}{9}$
19. $6i\sqrt{2}+2\sqrt{15}$ 20. A. $24+10i$ $a=24, b=10$ B. $-8+0i$ $a=-8, b=0$
21. A - Irr, B - Imag., C - Imag.

Unit 8 Day Complex Number Practice Part 2 Answer Key:

1. -30 2. $2+3i$ 3. $60+14i$ 4. $-3i\sqrt{3}$ 5. $9-8i$ 6. $\frac{16+15i}{13}$ 7. 169 8. $6+3i$
9. $12i+1-\sqrt{2}$ 10. $24\sqrt{3}$ 11. $\frac{4i}{-3}$ 12. $-i$ 13. $\frac{3+5i\sqrt{3}}{7}$ 14. $-250i\sqrt{2}$ 15. $-42i$
16. 1 17. $\frac{-7i+4}{5}$ 18. $-i$ 19. $2i\sqrt{6}+4\sqrt{2}$
20. A. $2+0i, a=2, b=0$, B. $(-3+\sqrt{7})+0i, a=-3+\sqrt{7}, b=0$ 21. a.) $1-Int.$, b.) $3i\sqrt{3}-Imag.$, c.) $-\sqrt{6}-Irr.$

