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ANSWERS TO THE EXERCISES.

Ex. I.—3. 12; 4. 1; 5. 11; 6. 36; 7. 6; 8. 12;
9. 27; 10. 28; 11. 0; 12. -320; 13. 320; 14. 36;
15. 50; 16. 22; 17. 10; 18. 0; 19. 20; 20. 5; 21. 6;
22. 170; 23. 13; 24. 15.

Ex. II.—1. $19b$; 2. $-29xy$; 3. $15ab - 8by$; 4. $8x^2y^2 + 4x^2y$; 5. $9a^2b - 8cd$; 6. $7xyz + 10xy - 10yz$; 7. $14ax + 14ac + 5f$; 8. $4ax^3 + 10y + 26$; 9. $21a - 8b + 7y - 7z$.

Ex. III.—1. $2ab$; 2. $14x - y$; 3. $2ax - 4cx$; 4. $-6xyz$;
5. $9ab - 8xy$; 6. $13x^2y^2 + 4xy + 1$; 7. $a - ac$; 8. $2a^3 + 2\sqrt{y}$; 9. $4ab + 3xy + x^2y^2 + 3z$.

Ex. IV.—1. $11a + 9b$; 2. $10x^2y - z$; 3. $15a^2b + 2xy + 15x^2y^2 - xyd + abc$; 4. $11a^3 + 4b^3 - 6ab + 13bc + x^2y^2$;
5. $5 + 15xy + 8x^2y^2 + 10xy^2 + 2x^2y + xyz$; 6. $18ab - 9ab^2 + 2a^2b^2 + 9ac^2 + 9bc$; 7. $27ax + 12yz + 5d + 4$; 8. $8x + 6xy - 6y + 3z$; 9. $7a^2 + 13ab + 22bc + 5cd + 2d$; 10. $32ax^2 + 24by + abcd + 48$; 11. $x^2 + 2xy + y^2$; 12. $3ab - 4bc + yz + xy$; 13. $12abc - 12ax - 6axd + 2bc + y$; 14. $11a^3 + 2a^2b^2 + 4b^2$; 15. $6x^2y + ab + ax + 2b + z + 4x^2y^2$; 16. $4\sqrt{xy} + 5bc - 8 + xy - 2xy^2 + d + x^2y^2$; 17. $6ab + \sqrt{(a+x)} + 8(a+x) + 2xy - x^2$; 18. $7ax + 6\sqrt{x^2y} + 6 + 3xy + 2xy^2$.