EXERCISE VIII.

- 1. Add 4x+7y+13z five times in succession to x-41y-72z.
- 2. To the sum of 3a-4b-17c and 4c-5b-a add the sum of a-5b-19c and a+c+15b.
- 3. From $3x^3 2x^2 5x + 7$ take the sum of $8x^3 5x^2 + 7x 2$ and $8x^2 9x 19$.
- 4. Subtract $5+a-9a^2+7a^8$ from the sum of $8-2a-13a^2$ and $6a-19a^2-27a^3$.
- 5. Find the sum of 19a-27b-36c and -28a+27b-39c, and subtract the result from 2a-3b-5c.
- 6. Take $x^2 3y^2$ from $5xy + 7y^2$, and add the remainder to the sum of $5x^2 9xy + 3y^2$ and $-8xy 11y^2$.
- 7. Add together $5x^3 + 7x^2y 9xy^2 + 18y^3$ and $-2x^3 5xy^2 7x^2y y^3$ and diminish the result by $-x^3 x^2y xy^2 y^3$.
- 8. Take $14a^2 14a + 3$ from unity, and add $5 + 13a 9a^2$ to the difference.
- 9. What expression must be subtracted from $19x^2 3x + 4y 7$ to leave $x^2 y 9$?
- 10. What expression must be added to 5ab-11ac +12bc to produce ab+5bc-6ac?
- 11. To what expression must $8x^2 9x + 5$ be added to produce zero?
- 12. Subtract $5x^3 + 4x^2 5x 9$ five times in succession from $x^3 + 13x 18$.
- 13. From $5x^2 + 6xy 5y^2 12xz 3yz 8z^2$ take $2x^2 3y^2 + 4xz 5z^2 + 6yz 7xy$.
- 14. From $a^5 4a^3b^2 8a^2b^3 17ab^4 12b^5$ take in succession $a^5 2a^4b 3a^3b^2$; $2a^4b 4a^3b^2 6a^2b^3$; $3a^3b^2 6a^2b^3 9ab^4$; and $4a^2b^3 8ab^4 12b^5$.
 - 15. By how much does 2x-3 exceed 5x-17?
- 16. Subtract the sum of 15l-9m+3n-p and 4m-5n+p+1 from 13l-11m-9n.

7y⁴.

7. 0² + b³. - 16x³.

abc.