| Number of Operation. | Nature of Operation. | Variables acted upon. | Variables receiving results. | Indication of change in the value on any Variable. | Statement of Results. | Data. $^{1}V_1$ | $^{1}V_2$ | $^{1}V_3$ | Working Variables. $^{0}V_4$ | $^{0}V_5$ | $^{0}V_6$ | $^{0}V_7$ | $^{0}V_8$ | $^{0}V_9$ | $^{0}V_{10}$ | $^{0}V_{11}$ | $^{1}V_{12}$ | $^{0}V_{13}$ ..... | Result Variables. $^{1}V_{21}$ | $^{1}V_{22}$ | $^{1}V_{23}$ | $^{0}V_{24}$... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1 | 2 | $n$ | | | | | | | | | | | $B_1$ | $B_2$ | $B_3$ | $B_7$ |
| 1 | × | $^{1}V_2 \times ^{1}V_3$ | $^{1}V_4$, $^{1}V_5$, $^{1}V_6$ | $\begin{cases} ^{1}V_2 = {}^{1}V_2 \\ ^{1}V_3 = {}^{1}V_3 \end{cases}$ | $= 2n$ ..... | ... | 2 | $n$ | $2n$ | $2n$ | $2n$ | | | | | | | | | | | |
| 2 | − | $^{1}V_4 - ^{1}V_1$ | $^{2}V_4$ ..... | $\begin{cases} ^{1}V_4 = {}^{2}V_4 \\ ^{1}V_1 = {}^{1}V_1 \end{cases}$ | $= 2n-1$ ..... | 1 | ... | ... | $2n-1$ | | | | | | | | | | | | | |
| 3 | + | $^{1}V_5 + ^{1}V_1$ | $^{2}V_5$ ..... | $\begin{cases} ^{1}V_5 = {}^{2}V_5 \\ ^{1}V_1 = {}^{1}V_1 \end{cases}$ | $= 2n+1$ ..... | 1 | ... | ... | ... | $2n+1$ | | | | | | | | | | | | |
| 4 | + | $^{2}V_5 + ^{2}V_4$ | $^{1}V_{11}$ ..... | $\begin{cases} ^{2}V_5 = {}^{0}V_5 \\ ^{2}V_4 = {}^{0}V_4 \end{cases}$ | $= \dfrac{2n-1}{2n+1}$ | ... | ... | ... | 0 | 0 | ... | ... | ... | ... | ... | $\dfrac{2n-1}{2n+1}$ | | | | | | |
| 5 | + | $^{1}V_{11} \div ^{2}V_2$ | $^{2}V_{11}$ | $\begin{cases} ^{1}V_{11} = {}^{2}V_{11} \\ ^{1}V_2 = {}^{1}V_2 \end{cases}$ | $= \dfrac{1}{2} \cdot \dfrac{2n-1}{2n+1}$ ..... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | $\dfrac{1}{2} \cdot \dfrac{2n-1}{2n+1}$ | | | | | | |
| 6 | − | $^{0}V_{13} - ^{2}V_{11}$ | $^{1}V_{13}$ | $\begin{cases} ^{2}V_{11} = {}^{0}V_{11} \\ ^{1}V_{13} = {}^{2}V_{13} \end{cases}$ | $= -\dfrac{1}{2} \cdot \dfrac{2n-1}{2n+1} = A_0$ ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0 | ..... | $-\dfrac{1}{2} \cdot \dfrac{2n-1}{2n+1} = A_0$ | | | | |
| 7 | − | $^{1}V_9 - ^{1}V_1$ | $^{1}V_{10}$ | $\begin{cases} ^{1}V_9 = {}^{1}V_9 \\ ^{1}V_1 = {}^{1}V_1 \end{cases}$ | $= n-1\ (=3)$ ..... | 1 | ... | $n$ | ... | ... | ... | ... | ... | ... | $n-1$ | | | | | | | |
| 8 | + | $^{1}V_2 + ^{0}V_2$ | $^{1}V_7$ ..... | $\begin{cases} ^{1}V_2 = {}^{1}V_2 \\ ^{0}V_2 = {}^{2}V_7 \end{cases}$ | $= 2+0=2$ ..... | ... | 2 | ... | ... | ... | ... | 2 | | | | | | | | | | |
| 9 | + | $^{1}V_6 + ^{1}V_7$ | $^{2}V_{11}$ ..... | $\begin{cases} ^{1}V_6 = {}^{1}V_6 \\ ^{0}V_{11} = {}^{2}V_{11} \end{cases}$ | $= \dfrac{2n}{2} = A_1$ | ... | ... | ... | ... | ... | $2n$ | 2 | ... | ... | ... | $\dfrac{2n}{2} = A_1$ | | | | | | |
| 10 | × | $^{1}V_{21} \times ^{2}V_{11}$ | $^{1}V_{12}$ ..... | $\begin{cases} ^{1}V_{21} = {}^{2}V_{21} \\ ^{2}V_{11} = {}^{2}V_{11} \end{cases}$ | $= B_1 \cdot \dfrac{2n}{2} = B_1 A_1$ ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | $\dfrac{2n}{2} = A_1$ | $B_1 \cdot \dfrac{2n}{2} = B_1 A_1$ | ..... | $B_1$ | | | |
| 11 | + | $^{1}V_{12} + ^{1}V_{13}$ | $^{2}V_{13}$ ..... | $\begin{cases} ^{1}V_{12} = {}^{0}V_{12} \\ ^{1}V_{13} = {}^{2}V_{13} \end{cases}$ | $= -\dfrac{1}{2} \cdot \dfrac{2n-1}{2n+1} + B_1 \cdot \dfrac{2n}{2}$ ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ..... | 0 | $\left\{ -\dfrac{1}{2} \cdot \dfrac{2n-1}{2n+1} + B_1 \cdot \dfrac{2n}{2} \right\}$ | | | | |
| 12 | − | $^{1}V_{10} - ^{1}V_1$ | $^{2}V_{10}$ ..... | $\begin{cases} ^{1}V_{10} = {}^{2}V_{10} \\ ^{1}V_1 = {}^{1}V_1 \end{cases}$ | $= n-2\ (=2)$ ..... | 1 | ... | ... | ... | ... | ... | ... | ... | $n-2$ | | | | | | | | |
| 13 | | $^{1}V_6 - ^{1}V_1$ | $^{2}V_6$ ..... | $\begin{cases} ^{1}V_6 = {}^{2}V_6 \\ ^{1}V_1 = {}^{1}V_1 \end{cases}$ | $= 2n-1$ ..... | 1 | ... | ... | ... | ... | $2n-1$ | | | | | | | | | | | |
| 14 | | $+^{1}V_1 + ^{1}V_2$ | $^{2}V_7$ ..... | $\begin{cases} ^{1}V_1 = {}^{1}V_1 \\ ^{1}V_2 = {}^{2}V_7 \end{cases}$ | $= 2+1=3$ ..... | 1 | ... | ... | ... | ... | ... | 3 | | | | | | | | | | |
| 15 | | $\div ^{2}V_6 \div ^{2}V_2$ | $^{1}V_8$ ..... | $\begin{cases} ^{2}V_6 = {}^{2}V_6 \\ ^{2}V_7 = {}^{2}V_7 \end{cases}$ | $= \dfrac{2n-1}{3}$ | ... | ... | ... | ... | ... | $2n-1$ | 3 | $\dfrac{2n-1}{3}$ | | | | | | | | | |
| 16 | | $\times ^{1}V_8 \times ^{2}V_{11}$ | $^{1}V_{11}$ | $\begin{cases} ^{1}V_8 = {}^{0}V_8 \\ ^{2}V_{11} = {}^{2}V_{11} \end{cases}$ | $= \dfrac{2n}{2} \cdot \dfrac{2n-1}{3}$ | ... | ... | ... | ... | ... | ... | ... | 0 | ... | ... | $\dfrac{2n}{2} \cdot \dfrac{2n-1}{3}$ | | | | | | |
| 17 | | $-^{2}V_6 - ^{1}V_1$ | $^{2}V_6$ ..... | $\begin{cases} ^{2}V_6 = {}^{3}V_6 \\ ^{1}V_1 = {}^{1}V_1 \end{cases}$ | $= 2n-2$ ..... | 1 | ... | ... | ... | ... | $2n-2$ | | | | | | | | | | | |
| 18 | | $+^{1}V_1 + ^{2}V_2$ | $^{3}V_7$ ..... | $\begin{cases} ^{2}V_6 = {}^{3}V_6 \\ ^{2}V_7 = {}^{3}V_7 \end{cases}$ | $= 3+1=4$ ..... | 1 | ... | ... | ... | ... | ... | 4 | | | | | | | | | | |
| 19 | | $+^{2}V_6 + ^{3}V_7$ | $^{1}V_9$ ..... | $\begin{cases} ^{2}V_6 = {}^{3}V_6 \\ ^{3}V_7 = {}^{3}V_7 \end{cases}$ | $= \dfrac{2n-2}{4}$ | ... | ... | ... | ... | ... | $2n-2$ | 4 | ... | $\dfrac{2n-2}{4}$ | | $\left\{ \dfrac{2n}{2} \cdot \dfrac{2n-1}{3} \cdot \dfrac{2n-2}{3} \right\}$ $= A_3$ | | | | | | |
| 20 | | $\times ^{1}V_9 \times ^{4}V_{11}$ | $^{4}V_{11}$ | $\begin{cases} ^{1}V_9 = {}^{0}V_9 \\ ^{4}V_{11} = {}^{4}V_{11} \end{cases}$ | $= \dfrac{2n}{2} \cdot \dfrac{2n-1}{3} \cdot \dfrac{2n-2}{4} = A_3$ | ... | ... | ... | ... | ... | ... | ... | 0 | ... | ... | | | | | | | |
| 21 | | $\times ^{1}V_{22} \times ^{2}V_{11}$ | $^{0}V_{12}$ | $\begin{cases} ^{1}V_{22} = {}^{2}V_{22} \\ ^{0}V_{12} = {}^{2}V_{12} \end{cases}$ | $= B_3 \cdot \dfrac{2n}{2} \cdot \dfrac{2n-1}{3} \cdot \dfrac{2n-2}{3} = B_2 A_3$ | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0 | $B_2 A_3$ | ..... | ..... | $B_3$ | | |
| 22 | | $+^{2}V_{12} + ^{2}V_{13}$ | $^{2}V_{13}$ | $\begin{cases} ^{2}V_{12} = {}^{2}V_{12} \\ ^{2}V_{13} = {}^{2}V_{13} \end{cases}$ | $= A_0 + B_1 A_1 + B_2 A_2$ ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ..... | 0 | $\left\{ A_2 + B_1 A_1 + B_2 A_2 \right\}$ | | | | |
| 23 | | $-^{2}V_{10} - ^{1}V_1$ | $^{2}V_{10}$ | $\begin{cases} ^{2}V_{10} = {}^{3}V_{10} \\ ^{1}V_1 = {}^{1}V_1 \end{cases}$ | $= n-3\ (=1)$ ..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | $n-3$ | | | | | | | |
| | | | | | Here follows a repetition of Operations thirteen to twenty-three. | | | | | | | | | | | | | | | | | |
| 24 | | $+^{4}V_{13} + ^{0}V_{24}$ | $^{1}V_{24}$ ..... | $\begin{cases} ^{4}V_{13} = {}^{0}V_{13} \\ ^{0}V_{24} = {}^{1}V_{24} \end{cases}$ | $= B_7$ ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ..... | ..... | ..... | ..... | ..... | ..... | $B_7$ |
| 25 | | $+^{1}V_1 + ^{1}V_3$ | $^{1}V_3$ ..... | $\begin{cases} ^{1}V_1 = {}^{1}V_1 \\ ^{1}V_3 = {}^{2}V_3 \\ ^{2}V_6 = {}^{0}V_6 \\ ^{2}V_7 = {}^{0}V_7 \end{cases}$ | $= n+1 = 4+1 = 5$ ..... by a Variable-card. by a Variable card. | 1 | ... | $n+1$ | ... | ... | 0 | 0 | | | | | | | | | | |