Вычислим элементы матрицы |C|:

c1,1 = a1,1b1,1+a1,2b2,1+a1,3b3,1
c1,2 = a1,1b1,2+a1,2b2,2+a1,3b3,2
c1,3 = a1,1b1,3+a1,2b2,3+a1,3b3,3

c2,1 = a2,1b1,1+a2,2b2,1+a2,3b3,1
c2,2 = a2,1b1,2+a2,2b2,2+a2,3b3,2
c2,3 = a2,1b1,3+a2,2b2,3+a2,3b3,3

c3,1 = a3,1b1,1+a3,2b2,1+a3,3b3,1
c3,2 = a3,1b1,2+a3,2b2,2+a3,3b3,2
c3,3 = a3,1b1,3+a3,2b2,3+a3,3b3,3

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c1,1 =  | 5 | \* | 1 | + | 1 | \* | -1 | + | 3 | \* | 2 | = | 5 | + | -1 | + | 6 | = | 10 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c1,2 =  | 5 | \* | 2 | + | 1 | \* | -2 | + | 3 | \* | 0 | = | 10 | + | -2 | + | 0 | = | 8 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c1,3 =  | 5 | \* | 5 | + | 1 | \* | 4 | + | 3 | \* | 1 | = | 25 | + | 4 | + | 3 | = | 32 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c2,1 =  | 0 | \* | 1 | + | 2 | \* | -1 | + | -4 | \* | 2 | = | 0 | + | -2 | + | -8 | = | -10 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c2,2 =  | 0 | \* | 2 | + | 2 | \* | -2 | + | -4 | \* | 0 | = | 0 | + | -4 | + | 0 | = | -4 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c2,3 =  | 0 | \* | 5 | + | 2 | \* | 4 | + | -4 | \* | 1 | = | 0 | + | 8 | + | -4 | = | 4 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c3,1 =  | -1 | \* | 1 | + | 3 | \* | -1 | + | 3 | \* | 2 | = | -1 | + | -3 | + | 6 | = | 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c3,2 =  | -1 | \* | 2 | + | 3 | \* | -2 | + | 3 | \* | 0 | = | -2 | + | -6 | + | 0 | = | -8 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c3,3 =  | -1 | \* | 5 | + | 3 | \* | 4 | + | 3 | \* | 1 | = | -5 | + | 12 | + | 3 | = | 10 |

Результирующая матрица |С| :

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |

|  |  |  |
| --- | --- | --- |
| 10 | 8 | 32 |
| -10 | -4 | 4 |
| 2 | -8 | 10 |

 |