--> (A):matrix([5,−3,4],[1,−2,0],[3,−4,2]);

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 5 | −3 | 4 |  |  |
|  |  | −2 |  |  |  |
| (%o1) 1 | | 0 | |  |
|  | 3 | −4 | 2 |  |  |

--> (b):matrix([3,1,5],[2,−1,0],[−5,1,1]);

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 3 | 1 | 5 |  |  |  |  |
| (%o2) |  |  | 2 | −1 |  |  |  |  |  |
|  |  | 0 | |  |  |  |
|  |  | −5 | | 1 | 1 |  |  |  |  |
| --> (A)+(b); | | | |  |  |  |  |  |  |
|  |  |  | 8 | −2 | 9 |  |  |  |  |
| (%o3) |  |  | 3 | −3 |  |  |  |  |  |
|  |  | 0 | |  |  |  |
|  |  | −2 | | −3 | 3 |  |  |  |  |
| --> (A)−(b); | | | |  |  |  |  |  |  |
|  |  |  | 2 | −4 | −1 | |  |  |  |
| (%o4) |  |  |  | −1 |  |  |  |  |  |
| −1 | | | 0 | | |  |  |
|  |  |  | 8 | −5 | 1 | |  |  |  |
| --> 3·(A); | | |  |  |  |  |  |  |  |
|  |  | 15 | | −9 | 12 | |  |  |  |
| (%o5) |  |  |  | −6 |  |  |  |  |  |
| 3 | | |  | 0 | |  |  |
|  |  | 9 | | −12 |  | 6 |  |  |  |
| --> −2·(b); | | |  |  |  |  |  |  |  |
|  |  | −6 | | −2 | −10 | | | |  |
| (%o6) |  |  |  | 2 |  | 0 |  | |  |
| −4 | | |  |  | |  |
|  |  | 10 | | −2 | −2 | | | |  |
| --> (A)·(b); | | | |  |  |  |  |  |  |
|  |  |  | 15 | −3 |  | 20 | |  |  |
| (%o7) |  |  | 2 | 2 |  |  |  |  |  |
|  |  |  | 0 | |  |  |
|  |  | −15 | | −4 |  | 2 |  |  |  |
| --> transpose(A); | | | | |  |  |  |  |  |
|  |  |  | 5 | 1 | 3 | |  |  |  |
| (%o8) |  |  |  | −2 |  |  |  |  |  |
| −3 | | | −4 | | |  |  |
|  |  |  | 4 | 0 | 2 | |  |  |  |
| --> (E):matrix([1,0],[0,1]); | | | | | | | |  |  |
|  |  | 1 | | 0 |  |  |  |  |  |
| (%o9) | ( 0 | | | 1 ) |  |  |  |  |  |
| --> 4·(E); | | |  |  |  |  |  |  |  |
|  |  |  | 4 | 0 |  |  |  |  |  |
| (%o10) |  | ( 0 | | 4 ) |  |  |  |  |  |
| --> (b)·(A); | | | |  |  |  |  |  |  |
|  |  |  | 15 | −3 |  | 20 | |  |  |
| (%o11) |  |  | 2 | 2 |  |  |  |  |  |
|  |  |  | 0 | | |  |
|  |  |  | −15 −4 | |  | 2 | |  |  |



Created with [wxMaxima](https://wxmaxima-developers.github.io/wxmaxima/).