Maple Linear System Solver

The College of William and Mary has a university-wide license for MAPLE 11 on college-owned computers.

```
> restart:
 > # This file calculates the currents in the Physics 252 Week 2
    course notes.
 > with(linalg):
 Warning, new definition for norm
L Warning, new definition for trace
 > A:=matrix([[1,1,-1],[R1,0,R3],[0,R2,R3]]);
                                    A := \begin{bmatrix} 1 & 1 & -1 \\ RI & 0 & R3 \\ 0 & R2 & R3 \end{bmatrix}
 > B:=vector([0,V1,V2]);
                                     B := [0, V1, V2]
> solution:=linsolve(A,B):
 > solution[1];
                                  R3 V1 - V2 R3 + R2 V1
                                  R2 R1 + R2 R3 + R1 R3
 > solution[2];
                                  -R3 V1 + R1 V2 + V2 R3
                                  R2R1 + R2R3 + R1R3
 > solution[3];
                                      R1\ V2 + R2\ V1
                                  R2R1 + R2R3 + R1R3
```