```
M:matrix([a,c],[c,b])
Maxima 5.45.1 https://maxima.sourceforge.io
using Lisp SBCL 2.0.0
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Dedicated to the memory of William Schelter.
The function bug_report() provides bug reporting information.
 (%i35) M:matrix([a,b],[b,c])
 (%o39) \begin{pmatrix} a & b \\ b & c \end{pmatrix}
 (%i40) u1:matrix([0],[Y]);
                           u2:matrix([X],[L[y]]);
                           u3:matrix([L[x]],[Y]);
                           u4:matrix([X],[0
                                            ]);
  (%o40) \begin{pmatrix} 0 \\ Y \end{pmatrix}
 (%o42) \begin{pmatrix} L_x \\ Y \end{pmatrix}
(%o43) \begin{pmatrix} X \\ 0 \end{pmatrix}
 (%i44) p1:M.u1;
            p2:M.u2
            p3:M.u3;
            p4:M.u4;
(%045) \begin{pmatrix} bL_y + Xa \\ cL_y + Xb \end{pmatrix}
(%046) \begin{pmatrix} aL_x + Yb \\ bL_x + Yc \end{pmatrix}
(%047) \begin{pmatrix} Xa \\ Xb \end{pmatrix}
 incorrect syntax: Premature termination of input at ;.
 (\%i44) (5*\%pi*R^2)/(20)=4/5
  (%o48) \frac{\pi R^2}{4} = \frac{4}{5}
 (%i49) inverse(M)
 (%o49) inverse \begin{pmatrix} a & b \\ b & c \end{pmatrix}
 (%i50) invert(M)
(%o50)  \begin{pmatrix} \frac{c}{a c - b^2} & -\frac{b}{a c - b^2} \\ -\frac{b}{a c - b^2} & \frac{a}{a c - b^2} \end{pmatrix}
```

```
(%i53) C:matrix([57.10,27.24,-9.45],
                                                                                           [27.74,58.79,-18.70],
                                                                                                 [6*10^(-4),3.93,17.83])

\begin{pmatrix}
57.1 & 27.24 & -9.45 \\
27.74 & 58.79 & -18.7 \\
\frac{3}{5000} & 3.93 & 17.83
\end{pmatrix}

 (%i54) invert(C)
      (\%054) \quad (0.02263953380875922, -0.01055219681609967, 9.319974218570322 \times 10^{-4}; -0.0099827 \setminus 10^{-4}; -0.0099827 \times 10^{-4}; -0.009827 \times 1
005708862, 0.05250128825402924)
 (%i55) fpprinprec
      (%o55) fpprinprec
 (%i56) fpprintprec : 4 $
 (%i58) S:invert(C)
                                                    (%i60) E[1]=1/S[1][1]*GPa;
                                         E[2]=
       (%o60) E_1 = 44.17 \, \text{GPa}
 (%i61)
```