

```

[> with(LinearAlgebra):
[>
[> A := Matrix([[1, 0], [0, 1], [0, c]])
                                     
$$A := \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 0 & c \end{bmatrix} \tag{1}$$

[> p := A.(Transpose(A).A)^{-1}.Transpose(A)
                                     
$$p := \begin{bmatrix} 1 & 0 & 0 \\ 0 & \frac{1}{c^2+1} & \frac{c}{c^2+1} \\ 0 & \frac{c}{c^2+1} & \frac{c^2}{c^2+1} \end{bmatrix} \tag{2}$$

[> subs(c = 0, p)
                                     
$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{bmatrix} \tag{3}$$

[>

```