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[> with(LinearAlgebra) :
[> A := Matrix([[1, 1], [1, 1]]) :
[> J, Q := JordanForm(A, output = [J, Q])

```

$$J, Q := \begin{bmatrix} 0 & 0 \\ 0 & 2 \end{bmatrix}, \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} \end{bmatrix} \quad (1)$$

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[> diag := Matrix([[0, 0], [0, sin(2)]]) :
[> result := Q • diag • Transpose(Q)

```

$$result := \begin{bmatrix} \frac{\sin(2)}{4} & \frac{\sin(2)}{4} \\ \frac{\sin(2)}{4} & \frac{\sin(2)}{4} \end{bmatrix} \quad (2)$$

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[> restart : with(LinearAlgebra) :
[> A := Matrix([[0, 1], [0, 0]]) :
[> J, Q := JordanForm(A, output = [J, Q])

```

$$J, Q := \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}, \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \quad (3)$$

```

[> diag := Matrix([[0, 0], [0, sin(2)]]) :
[> result := Q • diag • Transpose(Q)

```

$$result := \begin{bmatrix} 0 & 0 \\ 0 & \sin(2) \end{bmatrix} \quad (4)$$

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[>

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