> *restart*

> $r := .99$

$$r := 0.99 \tag{1}$$

> $a := n \rightarrow evalf(r^n)$

$$a := n \rightarrow evalf(r^n) \tag{2}$$

> $s := n \rightarrow sum(a(k), k = 0 .. n)$

$$s := n \rightarrow \sum_{k=0}^{n} a(k) \tag{3}$$

>

> $A := \langle seq(a(k^2), k = 0 .. 100) \rangle$

$$A := \begin{bmatrix} 1 .. 101 \ Vector_{column} \\ Data\ Type: anything \\ Storage: rectangular \\ Order: Fortran\_order \end{bmatrix} \tag{4}$$

> $S := \langle seq(s(j^2), j = 0 .. 100) \rangle$

$$S := \begin{bmatrix} 1 .. 101 \ Vector_{column} \\ Data\ Type: anything \\ Storage: rectangular \\ Order: Fortran\_order \end{bmatrix} \tag{5}$$

> $b := n \rightarrow n^n$

$$b := n \rightarrow n^n \tag{6}$$

> $c := n \rightarrow \mathrm{n}!$

$$c := n \rightarrow n! \tag{7}$$

> $q := n \rightarrow \frac{c(n)}{b(n)}$

$$q := n \rightarrow \frac{c(n)}{b(n)} \tag{8}$$

> $Q := \langle seq(evalf(q(n)), n = 1 ..100) \rangle$

$$Q := \begin{bmatrix} 1 .. 100 \ Vector_{column} \\ Data\ Type: anything \\ Storage: rectangular \\ Order: Fortran\_order \end{bmatrix} \tag{9}$$

>

>