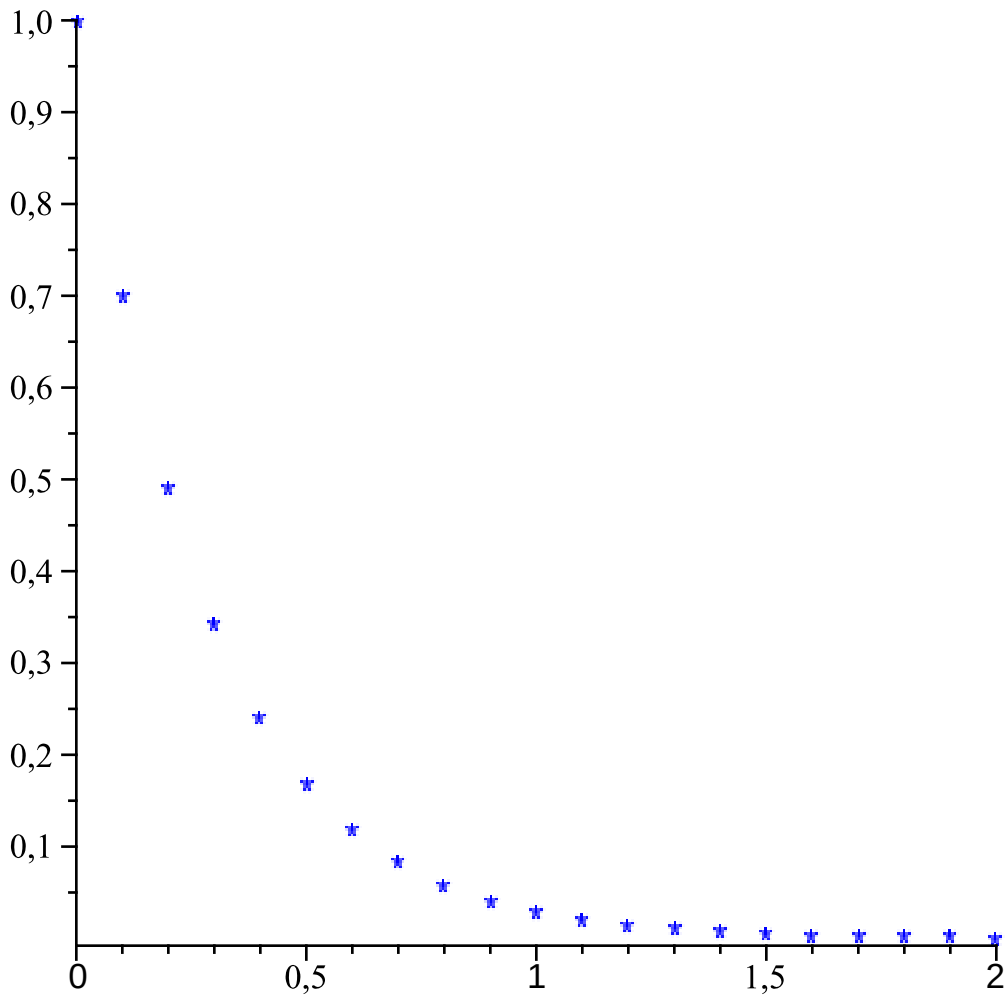
```
> with(LinearAlgebra) :
> Transiente := proc(h, T, alpha, N); local s, U2, t;
> t := Vector(N + 1) :
> U2 := Vector(N + 1) :
> t[1] := 0 :
> U2[1] := 1 :
> for s from 1 to N do
> t[s + 1] := T·s;
```

$$> U2[s+1] := \frac{\left(\frac{h}{3} - \frac{(1-\text{alpha})\cdot T}{h}\right)}{\left(\frac{h}{3} + \frac{\text{alpha}\cdot T}{h}\right)} \cdot U2[s] :$$

```
> end do:
> return t, U2;
> end proc:
> t, U := Transiente(1, 0.1, 0, 20) : #Transiente(h, T, alpha, N);
> plot(t, U, style = point, symbol = asterisk, color = blue);
```




```
>
>
```