```
p := x \rightarrow x \cdot (x - 1) - a
                                 p := x \mapsto x \cdot (x-1) - a
                                                                                             (1)
\rightarrow p \ i := subs(a = 0, p(x))
                                      p i := x (x-1)
                                                                                             (2)
> solve(p i = 0)
                                            0, 1
                                                                                             (3)
   # Dus lambda = 0, en lambda = 1
  # Benader naar x = 0
x 0 := 0 + u \cdot a + v \cdot a^2
                                     x 0 := va^2 + ua
                                                                                             (4)
\rightarrow p subs 0 := subs(x = x \ 0, p(x))
                     p \ subs \ 0 := (v a^2 + u a) (v a^2 + u a - 1) - a
                                                                                             (5)
\rightarrow p expand 0 := expand(p subs 0)
                p_{expand} = a^4 v^2 + 2 a^3 u v + a^2 u^2 - v a^2 - u a - a
                                                                                             (6)
coeff \ 1 \ 0 := -u - 1
                                                                                             (7)
\rightarrow coeff 2 0 := coeff(p expand 0, a, 2)
                                   coeff \ 2 \ 0 := u^2 - v
                                                                                             (8)
> solve 0 := solve(\{coeff\_1\_0 = 0, coeff\_2\_0 = 0\}, \{u, v\})
                               solve 0 := \{u = -1, v = 1\}
                                                                                             (9)

ightharpoonup result\_0 := subs(u = rhs(solve\_0[1]), v = rhs(solve\_0[2]), x \ 0)
                                   result 0 := a^2 - a
                                                                                           (10)
  # Benader 1
> x 1 := 1 + u \cdot a + v \cdot a^2
                                  x 1 := va^2 + ua + 1
                                                                                           (11)
\rightarrow p subs 1 := subs(x = x_1, p(x))
                    p\_subs\_1 := (va^2 + ua + 1) (va^2 + ua) - a
                                                                                           (12)
\rightarrow p expand 1 := expand(p_subs_1)
               p expand 1 := a^4 v^2 + 2 a^3 u v + a^2 u^2 + v a^2 + u a - a
                                                                                           (13)
\rightarrow coeff 1 1 := coeff(p_expand_1, a, 1)
                                   coeff \ 1 \ 1 := u - 1
                                                                                           (14)
> coeff \ 1 \ 2 := coeff(p \ expand \ 1, a, 2)
                                  coeff \ 1 \ 2 := u^2 + v
                                                                                           (15)
> solve 1 := solve(\{coeff \ 1 \ 1 = 0, coeff \ 1 \ 2 = 0\}, \{u, v\})
                              \bar{solve} \ 1 := \{ u = \bar{1}, v = -1 \}
                                                                                           (16)
> result 1 := subs(u = rhs(solve 1[1]), v = rhs(solve 1[2]), x 1)
```

$$result_1 := -a^2 + a + 1$$
 (17)