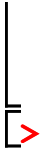


```

> restart :
> rx := 1.1; alpha := 0.001; beta := 0.0001; ry := 0.2;
      rx := 1.1
      alpha := 0.001
      beta := 0.0001
      ry := 0.2
(1)
> X := n → (1 + rx) · x[n - 1] - alpha · x[n - 1] · y[n - 1];
      X := n → (1 + rx) xn-1 - alpha xn-1 yn-1
(2)
> Y := n → beta · x[n - 1] · y[n - 1] + (1 - ry) · y[n - 1];
      Y := n → beta xn-1 yn-1 + (1 - ry) yn-1
(3)
> solve( {x = (1 + rx) · x - alpha · x · y, y = beta · x · y + (1 - ry) · y}, {x, y});
      {x = 0., y = 0.}, {x = 2000., y = 1100.}
(4)
> x[0] := 2100; y[0] := 900;
      x0 := 2100
      y0 := 900
(5)
> for i from 1 to 10 do
  x[i] := X(i);
  y[i] := Y(i);
end;
      x1 := 2520.000
      y1 := 909.0000
      x2 := 3001.320000
      y2 := 956.2680000
      x3 := 3432.705726
      y3 := 1052.021027
      x4 := 3597.403422
      y4 := 1202.744682
      x5 := 3227.789351
      y5 := 1394.871529
      x6 := 2276.006170
      y6 := 1566.132370
      x7 := 1215.086020
      y7 := 1609.358590
      x8 := 596.171518
      y8 := 1483.037784
      x9 := 367.8153011
      y9 := 1274.844716

```



$$x_{10} := 303.5047392$$

$$y_{10} := 1066.766512$$

**(6)**