$$\frac{1}{0 \cdot 2} \int_{0}^{1.53} \frac{1.53}{2} - \frac{0.02}{12} \int_{0}^{1} \frac{1}{0} \int_{0}^{1} \frac{1}{12} \int_{0}^{1} \frac{1}{12}$$

$$\frac{dy}{dx} = \frac{1}{10} \left(0.0098 + 0.0002 + 0.00005 + 0.00005 \right)$$

$$\frac{dy}{dx} = \frac{1}{100} \left(-0.0004 - 0.0001 - \frac{11}{12} (0.0002) \right)$$

$$= \frac{1}{100} \left(-0.0004 - 0.0001 - 0.00015 \right)$$

$$\frac{d^2y}{dx^2} = 0.0000068.$$

ii) Bockward formula
$$\frac{dy}{dx} = \frac{1}{10} \left(0.0183 - \frac{0.0004}{2} + 0.00001 + \frac{0.0003}{4} \right)$$

$$= \frac{1}{10} \left(0.0183 - 0.0002 + 0.00025 + 0.00006 \right)$$

$$\frac{d^2y}{dx^2} = \frac{1}{100} \left(-0.0004 + \frac{11}{12} (0.0001) \right)$$

$$\frac{d^3y}{dx^2} = -0.0000308$$

$$\frac{dy}{dx^2} = 0.002 + \frac{d^3y}{dx^2} = 0.0000068$$

ii) Forward (at $x = 500$)
$$\frac{dy}{dx} = 0.002 + \frac{d^3y}{dx^2} = 0.0000068$$

iii) Bockward (at $x = 500$)
$$\frac{dy}{dx} = 0.001817 , \frac{d^3y}{dx^2} = 0.0000068$$

iii) Bockward (at $x = 500$)
$$\frac{dy}{dx} = 0.001817 , \frac{d^3y}{dx^2} = 0.0000068$$

iii) The population is relicons of a certain town is about in the following table. Find the nation of growth to the population in 1961.

Year 1931 1941 1951 1961 1971

Repulsion 40.62 60.50 19.95 [63.56 [32.65]

Psichlam

Diffind the value
$$\cos(1.74)$$
 from the following inside

 χ 1.70 1.74 1.78 1.82 1.86

Sing 0.9917 0.9857 0.9782 0.9891 0.9885

If there $\chi_0 = 1.70$, $\chi_1 = 1.74$, $\chi_2 = 1.78$, $\chi_3 = 1.82$, $\chi_4 = 1.86$,

 $\chi_1 = 0.04$ and $\chi_2 = 1.74$

Here $\chi_1 = 1.74$ is neares to beginning of the fable are use resolven forward interpolation formula,

 $\chi_1 = \frac{1}{12} \int_{-1}^{12} \Delta g_0 + \frac{(2p^2 + 1)^2}{2} \Delta g_0 + \frac{(2p^2 + 1)^2}{4} + \frac{1}{12} \Delta g_0 + \frac{(2p^2 + 1)^2}{4} +$

extense,
$$p = \frac{x_1 - x_0}{h}$$
, $\frac{x_1 - x_1}{2} = \frac{x_1 - x_2}{h}$, $\frac{x_2 - x_2}{h} = \frac{x_2 - x_3}{h}$, $\frac{x_2 - x_2}{h} = \frac{x_2 - x_3}{h}$, $\frac{x_2 - x_3}{h} = \frac{x_2 - x_3}{h}$, $\frac{x_3 - x_3}{h} = \frac{x_3 - x_3}{h}$, $\frac{x_3 - x_3}{h$

$$= \frac{1}{0.04} \left\{ -0.0060 + \frac{1}{2} \left(-0.0010 \right) - \frac{1}{6} \left(-0.0001 \right) + \frac{1}{12} \left(-0.0002 \right)^2 \right\}$$

$$= \frac{1}{0.04} \left\{ -0.0060 - \frac{0.0015}{2} + \frac{0.0002}{6} \right\} + \frac{0.0002}{12} \right\}$$

$$= \frac{1}{0.04} \left\{ -0.00608 - 0.00075 + 0.00015 + 0.00016 \right\}$$

$$= \frac{1}{0.04} \left\{ -0.00615 + 0.0003343 \right\}$$

$$= \frac{1}{0.04} \left\{ -0.00616 \right\}$$

$$(05(1.74) = -0.167915$$
Am
$$(0$$

1) Find the minimum value of
$$f(x)$$
 which has the value.

2 0 2 4 6

 $f(x)$ 3 3 11 2t

Set.

Here, $x_0 : 0$, $x_1 : 2$, $x_2 : 4$, $x_3 : 6$ and $h : 6$

W. T. Newton's forward interpolation formula is,

 $f(x) : y_0 + p \land y_0 + \frac{p(p-1)}{2} \land y_0 + \frac{p(p-1)(p-2)}{6} \land y_0 + \frac{p(p-1)(p-2)(p-3)}{6} \land y_0 + \frac{p(p-1)(p-2)(p-3)}{2} \land y_0 + \frac{$

$$\frac{d_{1}}{d\rho} = \frac{d}{d\rho} \left\{ \begin{array}{l} y_{0} + \rho \left(\frac{d_{1}y_{0} + d_{2}y_{1}}{2} \right) + \frac{\rho^{2}}{21} \nabla^{2}y_{1} + \frac{\rho(\rho^{2}-1)}{s^{2}} \left(\frac{d_{2}y_{1} + d_{2}y_{2}}{2} \right) \right. \\ + \frac{\rho^{2}(\rho^{2}-1)}{41} \nabla^{4}y_{1} \cdot 2 \cdot \frac{1}{2} \left\{ \frac{d}{d\rho}(\rho^{3}) - \frac{d}{d\rho}(\rho^{3}) - \frac{d}{d\rho}(\rho^{3}) - \frac{d}{d\rho}(\rho^{3}) \right\} \\ = \frac{d}{d\rho} \left(y_{0} \right) + \frac{d}{d\rho} \left(\rho \right) \left(\frac{d_{2}y_{0} + d_{2}y_{1}}{2} \right) + \frac{1}{2} \cdot \frac{d}{d\rho} \left(\rho^{3} \right) \nabla^{4}y_{1} \cdot 2 \cdot \frac{1}{6} \cdot \left\{ \frac{d}{d\rho}(\rho^{3}) - \frac{d}{d\rho}(\rho^{3}) \right\} \right. \\ \left. - \frac{\Delta y_{0} + \Delta y_{1}}{2} + \frac{1}{2} \cdot \left\{ \frac{2\rho(\Delta^{2}y_{-1})^{2}}{2} + \frac{1}{6} \cdot \left\{ \frac{3\rho^{2}-1}{2} \right\} \frac{\Delta^{4}y_{1} + \Delta^{3}y_{2} \cdot 2}{2} + \frac{1}{2A} \cdot \left\{ \frac{d\rho(\rho^{3})^{2}}{2} + \frac{d\rho($$

$$\frac{d^{3}y}{dx^{2}} = \frac{1}{h} \int_{0}^{h} dy_{0} - \frac{d^{3}y}{dy_{0}} + \frac{d^{3}y}{dy_{0}}$$

```
To find dy (velocity).
                                                        (19
  31
   Here x = 1961 is nowier to the beginning of the table we
 use Newton's backward formula
    Here, xx = 1931, x1 = 1941, x2 = 1951, x3 = 1961, x4 = xn = 1971
     P = x-xn - (1971 - 1961)
    dy = 1 foyn - 1 oyn - 1 oyn - 1 vyn+ . }
  The diff table is as to hows
        y dy dy dy dy
   2
 1931 40.62 20.18
1941 60.80 -1.03 5.49 -4.47
19.15 4.46 1.02
 1961 103.56 29.09
       132 65
 1971
  \frac{dy}{dx} = \frac{1}{10} \left( 29.09 - \frac{5.48}{2} - \frac{1.02}{6} + \frac{4.47}{12} \right)
       = 1 (29.09 -2.74 - 0.17 + 0.3725)
   dy = 2.65525
dy = 2.65525 ...
6) A need is notating in a plane. The following table gives the
   angle o (radias) though which the rod has homed for various
  values of fince t (seconds).
    1 0 0.2 0.4 0.6 0.8 1.0
    0 0 12 0 49 1.12 2.02 3.20
             calculate the angular velocity and the
```

$$Ax\left(x^{2}-3x+2\right)=0.$$

$$X=0 \quad (or) \quad x^{2}-3x+2=0.$$

$$Z=0,1,2.$$
(i) When, $Z=0$, $\frac{d^{2}y}{dx^{2}}=\frac{c}{1}-0.5-(3)+\frac{11}{12}(6)^{\frac{3}{2}}$

$$=\left(-0.5-3+\frac{11}{2}\right)=\frac{-1-b+11}{2}=\frac{4}{2}.$$

$$=2>0.$$
(ii) When $X=1$, $\frac{d^{2}y}{dx^{2}}=\left(-0.5-\frac{1}{12}(6)\right)=-0.5-\frac{1}{2}$

$$=\frac{-1+1}{2}=\frac{-2}{2}=-1<0.$$
(iii) When $X=2$, $\frac{d^{2}y}{dx^{2}}=\left(-0.5+3-\frac{1}{12}(6)\right)=\left(-0.5+3-\frac{1}{2}\right)$

$$=\frac{-1+b-1}{2}=\frac{4}{2}=2>0.$$
(iv) when $X=2$, $\frac{d^{2}y}{dx^{2}}=\left(-0.5+3-\frac{1}{2}(6)\right)=-0.5-\frac{1}{2}$

$$=\frac{-1+b-1}{2}=\frac{4}{2}=2>0.$$
(iv) when $X=-1$ the max value is
$$=0+2\left(0.27\right)+\frac{2}{2}\left(-0.5\right)=0.5-0.5=0.$$
(iv) $=0$, $=0$, $=0$, $=0$, $=0$.

2) From the following table find the maximum value of $=0$, $=0$, $=0$, $=0$, $=0$.

2) From the following table find the maximum value of $=0$, $=$

We can rempting forward formula.

How,
$$n_0 = 600$$
, $n_1 = 600$, $n_2 = 620$, $n_3 = 630$, $n_4 = 640$, $n_6 = 600$

Also, $n_1 = 600$, $n_1 = 600$
 $n_1 = \frac{1}{10} \left\{ \frac{1}{10} A_0^2 - \frac{1}{2} A_0^2 + \frac{1}{12} A_0^4 A_0^2 \right\}$
 $\frac{d^3}{dx^3} = \frac{1}{10} \left\{ \frac{1}{10} A_0^2 - A_0^3 + \frac{1}{12} A_0^4 A_0^3 \right\}$
 $\frac{d^3}{dx^3} = \frac{1}{10} \left\{ \frac{1}{10} A_0^3 - A_0^3 + \frac{1}{12} A_0^4 A_0^3 \right\}$
 $\frac{d^3}{dx^3} = \frac{1}{10} \left\{ \frac{1}{10} A_0^3 + \frac{1}{10} A_0^3 + \frac{1}{10} A_0^4 A_0^3 \right\}$
 $\frac{d^3}{dx^3} = \frac{1}{10} \left\{ \frac{1}{10} A_0^3 + \frac{1}{10} A_0^3 + \frac{1}{10} A_0^4 A_0^3 + \frac{1}{10} A_0^4 A_0^3 \right\}$
 $\frac{d^3}{dx^3} = \frac{1}{10} \left\{ \frac{1}{10} A_0^3 + \frac{1}{10} A_0^3 + \frac{1}{10} A_0^4 A_$

$$I = \int_{\chi_{0}}^{\pi} f(x) dx \qquad (2)$$

$$W. k. T = \frac{\chi_{0} - \chi_{0}}{h} = \int_{\chi_{0} + \chi_{0} + \chi_{0} + \chi_{0} + \chi_{0}} dx$$

$$\therefore dx = d(\gamma_{0} + \chi_{0}) = d(\gamma_{0}) + h dy = h dy.$$

$$(3) \text{ where } \chi = \chi_{0} + \eta_{0} = \int_{\chi_{0} + \chi_{0} + \chi_{0} + \chi_{0}} dx + \chi_{0} + \eta_{0} = \int_{\chi_{0} + \chi_{0} + \chi_{0} + \chi_{0}} dx + \chi_{0} + \chi_{0}$$

$$\frac{d^{2}}{dx^{2}} = \frac{d}{dx} \left(\frac{du}{dx} \right) = \frac{d}{dp} \left(\frac{du}{dx} \right) \frac{dp}{dx}$$

$$= \frac{d}{dp} \left\{ \frac{1}{h} \left[\nabla y_{h}^{4} + \frac{2p+1}{2} \nabla^{2} y_{h}^{2} + \frac{5p^{2}+6p+2}{6} \nabla^{2} y_{h}^{4} + \frac{4p^{2}+(3p^{2}+22)p+6}{6} \nabla^{2} y_{h}^{4} + \frac{4p^{2}+(3p^{2}+22)p+6}{24} \nabla^{2} y_{h}^{4} + \frac{1}{h^{2}} \left(\frac{d}{dp} (\nabla y_{h}^{2}) + \frac{1}{2} \int_{0}^{2} \frac{d}{dp} (p^{2}) + \frac{d}{dp} (p^{2}) + \frac{d}{dp} (p^{2}) d^{2} y_{h}^{4} + \frac{1}{24} \int_{0}^{2} \frac{d}{dp} (p^{2}) + \frac{d}{dp} (p^{2}) d^{2} y_{h}^{4} + \frac{1}{24} \int_{0}^{2} \frac{d}{dp} d^{2} d^{2} y_{h}^{4} + \frac{1}{24} \int_{0}^{2} \frac{d}{dp} d^{2} y_{h}^{4} + \frac{1}{24} \int_{0}^{2} \frac{d}{dp} d^{2} d^{2}$$

According to the red when
$$t = 0.6$$
 Seconds.

Here $t = 0.6$ % in the middle of the lable we use strillings formula to find angular velocity and acceleration.

(a) To find $\left(\frac{de}{dt}\right)$ at $t = 0.6$ and $\left(\frac{d^2e}{dt^2}\right)$ at $t = 0.6$.

Along $p : \frac{t-t_0}{t_0}$

Choose to so be and have $k = 0.2$

P = 0.6.0.6 = 0 => P=0

What T

(\frac{de}{dt}\) at $t = t_0 = \frac{1}{h^2} \int \frac{A^3y-1}{2} - \frac{A^3y-1}{12} + \frac{A^3y-2}{12} \rightarrow \frac{7}{2} - \frac{1}{2}

The tabular column as follows:

\[
\text{to } \frac{A^3e}{2} - \frac{A^3$

and,
$$\frac{dy}{dx} = \frac{1}{h} \left\{ \Delta y_{0} + \frac{2p-1}{2} \Delta^{2}y_{0} + \frac{3p^{2}-bp+2}{6} \Delta^{3}y_{0} + \frac{2p^{3}-qp^{2}+11p-3}{2A} \Delta^{4}y_{0} + \frac{3p^{2}-bp+2}{2A} \Delta^{4}y_{0} + \frac{3p^{2}-qp^{2}+11p-3}{2A} \Delta^{4}y_{0} + \frac{3p^{2}-qp^{2}-qp^{2}+11p-3}{2A} \Delta^{4}y_{0} + \frac{3p^{2}-qp^{2}-qp^{2}+11p-3}{2A} \Delta^{4}y_{0} + \frac{3p^{2}-qp^{2}-qp^{2}+11p-3}{2A} \Delta^{4}y_{0} + \frac{3p^{2}-qp^{2}-qp^{2}-qp^{2}+11p-3}{2A} \Delta^{4}y_{0} + \frac{3p^{2}-qp^{$$

$$\frac{-12x^{2}+48x-67}{6}$$

$$2(-6x^{2}+48x-67)$$

$$6$$

$$-6x^{2}+48x-67=0 \Rightarrow 6x^{2}-48x+67=0$$

$$7 = \frac{48 \pm \sqrt{48}x^{2}-416(67)}{2(67)} = \frac{48 \pm \sqrt{2504-1608}}{12}$$

$$= \frac{48 \pm \sqrt{69}x^{2}-416(67)}{12} = \frac{48 \pm 26.4}{12}$$

$$= \frac{48 \pm 26.4}{12} + \frac{48-26.4}{12}$$

$$= \frac{74\cdot4}{12} + \frac{21.6}{12}$$

$$= \frac{74\cdot4}{12} + \frac{21.6}{12}$$

$$= \frac{74\cdot4}{12} = 1(12 \pm (1.8-1)(-4)) = 12 \pm 0.8(-4) = 12 - 3 \cdot 2 = 8800.$$
(i) when, $x = 6.2$,
(ii) when, $x = 6.2$,
$$\frac{d^{2}y}{dx^{2}} = 1(12 \pm (6.2-1)(-4)) = 12 \pm 5.2(-4) = 12 - 20.8 = 882$$

$$= \frac{4}{3}(x) = \frac{1}{3}(x) =$$

The min value
$$a = 3 + \frac{1}{2}(-\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) + \frac{1}{2}$$

Simporis 1/3 of Rule Put , n= 2 in (2). The values of x are x0, x1, 22. -Here all the differences of 3rd order and higher order well become zero. Not2k · S f(x) dx + h f240+22 A40+(28-21) A40} = h f 240 + 2 Dy + - 1 24 g = h = 24 + 2 (4 - 40) + 1/3 (89, - 690) = h = 240+24, - 240+ 16 (42-4, -4, +40)} = h 164, +42 - 8, -4, + 4. 4 " h {y2+44,+43} = 4 { 40+ 44, + 42} Uly, J frodx = 4 {42+443+44} J fx) dx = h { y4 + 4 y5 + 96} (fix)do = 1 {yn-2 + 4yn-1+yn} Adding all these equations, not the state of the state o + 9 + 4 + 4 4 5 + 46+ ... + 4n-1 + 4 40-1+30} 20+0h

(f(x) d2 = 1 {140+9n)+2142+44+...+4n-2) +4(4+4+...+9n-1) This formula is known as simpson's 1/3rd mule formula.

Simpsons
$$\frac{3}{6}$$
 in (2)

The values of x are x_0, x_1, x_3, x_3 .

The values of x are x_0, x_1, x_3, x_3 .

The 4th order abspraces and higher order difference will become x_0 .

If x_0 is x_0 is x_0 is x_0 is x_0 is x_0 is x_0 in x_0 .

If x_0 is x_0

Trapezoidal Rule put , n=1 % (2) Derive Trapezoidal sule The values of 7 are xo, x, Here all the differences except Dy, will be zero. 20+h => Sfanda = h f yo + 1/2 Ayog - h fy + 1/2 (4. 40)3 = h { 240+4, - 40} = h/2 (yo+yi) lly, x0+2h =>) f(x) dx = \frac{h}{2} (y,+42) $\int_{0}^{\infty} f(x) dx = \frac{h}{2} (y_2 + y_3)$ J f(x) dz = 1 (9 +90) 20 + (n-1) h Adding all there early, work $\int_{0}^{\infty} f(x) dx + \int_{0}^{\infty} f(x) dx + \dots + \int_{0}^{\infty} f(x) dx = \frac{h}{2} \int_{0}^{\infty} y_{0} + y_{1} + y_{2} + y_{2} + y_{3} + y_{4} + y_{5} + y$ is) fox)d2 = 4 {(40+4,)+2(4,+42+...+4)}

```
Here yo = 0.2, 9, = 0.1429, 92 = 0.111, 93 = 0.0909,
 4 = 0.0769, ys = 0.0667, y6= 0.0588, y+=0.0526,
 98=0.0476, yq=0.0435, y10=0.04
 W. K. T trapezoidal rule is,
 ] f(x) dx = 1 {(y0+yn)+2(y,+y2+ + yn-1)}
5 1 d2 = 4 f(yo+yn)+2(y,+y2+y3+ 44+y5+y++y8+
                                              99)3
       = 0.5 } (0.2+0.04)+2(0.1429+0.1111+0.0909+0.0769
                     10.0667+0.0588+0.0526+0.0476
                                           +0.0435)}
     = 1/A f 0.24 +210.691)}
       = 1/4 (0-24+1.382) -> 1/4 (1.622)
Jan 5 1 dx = 0, 4055 11.
3) Evaluate J sinx dx by simpson's 1/3rd rule dividing the
range into 6 equal points (n=6).
Sd. GT n=6.
      h = \frac{b-a}{n} = \frac{\pi/2 - 0}{6} = 3 \pi/2
h = \frac{\pi}{12}
Let, y(x)= Sinx
.. The tabular column is as follows:
× 0 11/12 11/6 11/4 11/9 571/12 11/2
y= Six 0 0.2588 0.5002 0.7011 0.8660 0.96569 1
```

$$\frac{1}{10} = \frac{1}{10} = \frac{1}{10}$$

Here,
$$y_0=0$$
, $y_1=0$, $y_2=0$. $y_3=0.5$, $y_3=0.4011$, $y_4=0.6460$, $y_5=0.9640$, $y_6=1$.

We to Simpson's y_3 and $y_6=0.5$, $y_5=0.4011$, $y_6=0.6460$, $y_6=0.9640$, $y_6=0.96400$, $y_6=0.9640$, $y_6=0.9640$, $y_6=0.9640$, $y_6=0.9640$, $y_6=0.$

Jydx = h
$$\frac{1}{9} + \frac{1^{\frac{1}{2}}}{2} y_0^1 + \frac{1^{\frac{1}{2}}}{6} y_0^{\frac{1}{2}} + \frac{1^{\frac{1}{2}}}{24} y_0^{\frac{1}{2}} + \dots$$

Now the area of the frapezium to the from $\frac{1}{9} y_0^1 + \frac{1}{9} y_0$

$$\int_{0}^{1} \frac{dx}{(+x^{2})} = 1.3662.$$

iii) W. F. T. the simpson 3/5th rule is,
$$\int_{0}^{1} \frac{dx}{(+x^{2})} = \frac{3h}{8} \int_{0}^{1} (y_{0} + y_{0}) + 3(y_{1} + y_{A}) + 3(y_{2} + y_{3}) + 2y_{3})$$

$$= \frac{3}{8} \int_{0}^{1} (1 + 0.000) + 3(0.5 + 0.0580) + 3(0.240.0380)$$

$$= \frac{3}{8} \int_{0}^{1} (1.0270 + 3(0.5588) + 3(0.2358) + 0.2]$$

$$= \frac{3}{8} \int_{0}^{1} (3.6189)$$

$$= 1.3571$$

iv) W. F. T. the weddles xule is,
$$\int_{0}^{1} \frac{dx}{(1 + x^{2})} = \frac{3h}{10} \int_{0}^{1} (y_{0} + 5y_{1} + y_{2} + 6y_{3} + y_{4} + 5y_{5} + y_{6})^{2}$$

$$= \frac{3}{10} \int_{0}^{1} (1 + 5(0.5) + 0.2 + 6(0.1) + 0.0588 + 5(0.03846) + (0.001)^{2}$$

$$= 0.3 \int_{0}^{1} (1 + 2.5 + 0.2 + 0.6408588 + 0.1925 + 0.001)^{2}$$

$$= 0.3 \int_{0}^{1} (1 + 2.5 + 0.2 + 0.6408588 + 0.1925 + 0.001)^{2}$$

$$= 0.3 \int_{0}^{1} (1 + 2.5 + 0.2 + 0.6408588 + 0.1925 + 0.001)^{2}$$

$$= 0.3 \int_{0}^{1} (1 + 2.5 + 0.2 + 0.6408588 + 0.1925 + 0.001)^{2}$$

$$= 0.3 \int_{0}^{1} (1 + 2.5 + 0.2 + 0.6408588 + 0.1925 + 0.001)^{2}$$

$$= 0.3 \int_{0}^{1} (1 + 2.5 + 0.2 + 0.6408588 + 0.1925 + 0.001)^{2}$$

$$= \frac{1}{100} \int_{0}^{1} \frac{dx}{(1 + 2.5 + 0.266)} \int_{0}^{1} (1 + 2.566)$$

$$= \frac{1}{100} \int_{0}^{1} (1 + 2.566) \int_{0}^{1} (1 + 2.566)$$

Here,
$$y_0 = 1$$
, $y_1 = 0$, 8571 , $y_2 = 0.75$, $y_3 = 0.667$, $y_4 = 0.6$;

 $y_5 = 0.5455$; $y_6 = 0.5$

i) we the Trapezoidal rule is,

$$\int_{0}^{1} \frac{dx}{1+x} = \frac{1}{2} \int_{0}^{1} (y_0 + y_0) + 2 (y_1 + y_2 + \dots + y_{n-1})^2$$

$$= \frac{1}{12} \int_{0}^{1} (1 + 0.5) + 2 \int_{0}^{1} (1 + 0.8571) + 0.75 + 0.6667 + 0.667$$

10 the actual value.

11 the
$$y(x) = \frac{1}{1+x^2} = y$$
 fain a Git $k=1$.

The fobulast column is an follow.

12 3 4 5 6

13 1 0.5 0.2 0.1 0.0585 0.0385 0.0270

14 the $y_0 = 1$, $y_1 = 0.5$, $y_2 = 0.2$, $y_3 = 0.1$, $y_4 = 0.0588$,

15 $y_5 = 0.0385$, $y_6 = 0.0270$

16 W. K. T the impercial xule is,

17 $y_5 = 0.0385$, $y_6 = 0.0270$

17 W. K. T the impercial xule is,

18 $y_5 = 0.0385$, $y_6 = 0.0270$

19 W. K. T the impercial xule is,

19 $y_5 = 0.0385$, $y_6 = 0.0270$

20 $y_5 = 0.0385$, $y_6 = 0.0270$

21 W. K. T the impercial xule is,

22 $y_5 = 0.0385$, $y_6 = 0.0270$

23 $y_5 = 0.0385$, $y_6 = 0.0270$

24 $y_5 = 0.0385$, $y_6 = 0.0270$

25 $y_5 = 0.0385$, $y_6 = 0.0270$

26 $y_5 = 0.0385$, $y_6 = 0.0270$

27 $y_5 = 0.0385$, $y_6 = 0.0270$

28 $y_5 = 0.0385$, $y_6 = 0.0385$, y_6