

$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2 4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	na nagrapana na	5	$\frac{1}{1} \frac{1}{3} - \frac{1}{1} \frac{1}{3} = \frac{4}{3}$
$f(x) = x^{\frac{3}{2}} \cdot x + \frac{3}{2}$ $f'(x) = 3x^{\frac{3}{2}} - 5$ $x_1 = x_0 - \frac{f(x_0)}{f(x_0)}$ $y = 2 - (2)^{\frac{1}{2}} \cdot 5(2) - 2$ $= 2 \cdot 5(1)^{\frac{3}{2}} \cdot 5$ $x_2 = 2 \cdot 92680$ $x_3 = 2 \cdot 11730$ $x_4 = 2 \cdot 11730$ $x_4 = 2 \cdot 11721$ $x_5 = 2 \cdot 11721$ $x_6 = 2 \cdot 11721$ $x_6 = 2 \cdot 11721$ $x_7 = 2 \cdot 11721$ $x_8 = 2 \cdot 11721$	+ (0)	X 3-2 X-5 = 9 - X = 5	V3-24-4-0
$f'(x) = 3x^{\frac{1}{2}} = x^{\frac{1}{2}} = x^{$			and x1=3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		f1(x)=3x2-5	1 1 1 1 - 2 1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Name and Associated to the Control of the Control o	X, = No - +(No)	$\frac{1}{1}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		= 2 - (2)3-5(2)-2	4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		3(2)2-5	1213-2(312-4
$x_2 = 2.42680$ $x_3 = 2.41430$ $x_4 = 2.41421$ $x_5 = 2.41421$ $x_7 = 1.5142$ $x_7 = 1.$		= 2.57143	
$x_{4} = 2.41421$ $x_{5} = 2.41721$ $x_{5} = 2.41721$ $x_{5} = 2.41721$ $x_{5} = 2.41721$ $x_{7} = 2.41721$ $x_{1} = 3x^{2} - 4x$ $x_{2} = 2.57 - (2.5)^{2} - 2(2.5)^{2} - 4$ $x_{3} = 2.57 - (2.5)^{2} - 2(2.5)^{2} - 4$ $x_{4} = 2.57 - 4(2.5)$ $x_{2} = 2.57 - 4(2.5)$ $x_{2} = 2.57 - 4(2.5)$ $x_{3} = 2.57 - 4(2.5)$ $x_{4} = 2.57 - 4(2.5)$ $x_{2} = 2.57 - 4(2.5)$ $x_{2} = 2.57 - 4(2.5)$ $x_{3} = 2.57 - 4(2.5)$ $x_{4} = 2.57 - 4(2.5)$ $x_{2} = 2.57 - 4(2.5)$ $x_{3} = 2.57 - 4(2.5)$ $x_{4} = 2.57 - 4(2.5)$ $x_{5} = 2.57 - 4(2.5$			= 3 fl3) have different
$\begin{array}{cccccccccccccccccccccccccccccccccccc$: since f(2) and The hotoppa
$ \begin{array}{c} x_5 = 2.41421 \\ \hline \vdots \text{ The root is } 2.4142 \\ \hline \vdots \text{ The root is } 2.4142 \\ \hline \end{array} $ $ \begin{array}{c} f'(x) = 3x^2 - 4x \\ \hline \end{cases} $	manus.		sign, then the routiles of the
The root is 2.4142. The root is 2.4142. $f'(x =3x^2-4x) \text{Assume } x_0=2.5,$ $f(x) = 3x^2-4x \text{Assume } x_0=2.5,$ $f(x) = x_0 - \frac{f(x_0)}{f'(x_0)}$ $f'(x) = \frac{1}{x} + \frac{1}{x}$ $= 2.6$ $x_1 = x_0 - \frac{f(x_0)}{f'(x_0)}$ $= 2 - f($			2 and 3,
(b) $ h \times z - x $ $ h \times z - x$	-		
(b) $ h \times 2 - x $ $ h \times 2 - x$			f'(x1=3x2-4x Assume x0=2.5)
			$\mathcal{H}_1 = \mathcal{H}_0 - \frac{f(K_0)}{f(X_0)}$
$f(x) = \ln x + x - 2$ $f(x) = \frac{1}{x} + 1$ $= 2.6$ $x_1 = x_0 - \frac{f(x_0)}{f(x_0)}$ $= 2 - \ln 2 + 2 - 2$ $\frac{1}{x} + 1$ $= 1.53790$ $x_2 = 1.55710$ $x_3 = 1.55715$ $x_4 = 1.55715$ $x_4 = 1.55715$ $x_6 = 0$ $x_1 = 1.55715$ $x_1 = 0$ $x_2 = 1.55715$ $x_1 = 0$ $x_2 = 1.55715$ $x_1 = 0$ $x_1 = 1.55715$ $x_2 = 0$ $x_1 = 1.55715$ $x_1 = 0$ $x_2 = 0$ $x_3 = 0$ $x_1 = 0$ $x_1 = 0$ $x_2 = 0$ $x_3 = 0$ $x_4 = 0$ $x_1 = 0$ $x_1 = 0$ $x_2 = 0$ $x_3 = 0$ $x_4 = 0$ $x_$	- (0)	101-2-2 10-2	= 2.5 - (2.5) 3 - 2(2.5) 2 - 4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		$\frac{f'(X) = \overline{X} \cdot \overline{f}}{f(X \circ)}$	
:. The root is 2.59, = 1.53790 $x_2 = 1.55715$ $x_3 = 1.55715$ $x_4 = 1.55715$:. The root is 1.5572. $x_1 = 1.55715$ $x_2 = 0$ and $x_1 = 0$ $x_1 = 0$ $x_2 = 0$ $x_3 = 0$ $x_4 = 0$ $x_$			
= 1.53790			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$:. The root 13 2.37.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
The root is 1.5572. $f(x) = xe^{x} - 1$ $f(0) = 0$ $f(1) = 1e' - 1$ $= 1.7183$ $= Since f(0) and f(1) have different sign, then the root lies between$			xex-1=0
f(0) = 0 $f(1) = 1e' - 1$ $= 1.7183$ $=$			x=0 and x=1
f(1) = 1e'-1 = 1.7183 = Since f(0) and f(1) have different sign, then the root lies between		:. The root is 1.5572.	f(n) = ne x - 1
f(1) = 1e'-1 = 1.7183 = Since f(0) and f(1) have different sign, then the root lies between			f(0) = 0
= 1.7183 = Since flot and flot have different sign, then the voot lies between			
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sign, then the root lies between			Since flot and flit have different
o and 1.7183.			sign, then the root lies between
			0 and 1.7183

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	UV	No: Date:
	f(x) = xe" -1 u=x v=ex 8.	2 4 4 / 0 / 4
	+ (x) - x(c + e (1) - u'=1 v'-px	3x + (05x - 3 = 0
	= Xe"+e"	f(x)=3x+10sx-3 f'(x)=3-sinx
	A13 wing x0 = 0,5	No = 0.5
	$H_1 = \chi_0 - \frac{f(\chi_0)}{f'(\chi_0)}$	X1= 0.5 - 3 (0.5) + 105 (0.5) - 3
	= 0,5 - 0,500.5	3-511(0.5)
	e 0.5(0.5+1)	= 0.74693
	= 0.5710	X2 = 0.75789
		x(3 = 0.75791
	$M_2 = 0.5671$	x4=0.75791
	X3 = 0,5671	: N = 0.7579
		The same of the same of the same
7.	$x \ln x - \ln x - 1 = 0 \qquad u = x v = \ln x \cdot 9$	$\chi = 3\sqrt{15}$ $f(0) = 0^3 - 15 = -15 < 0$
	$f(x) = x nx - nx - \qquad u' = 1 v' = \frac{1}{x}$	$x^3 = 15$ $f(1) = 1^3 - 15 = -1420$
	$f'(x) = x\left(\frac{1}{x}\right) + \ln x - \frac{1}{x}$	$x^{3}-15=0$ $f(1)=2^{3}-15=-7<0$
	$= 1 + \ln \kappa - \frac{1}{\kappa}$	$f(N) = N^3 - 15 f(3) = 3^3 - 15 = 12 > 0$
	$x_0 = 1.3$	f'(x1=3x2 There is a root betwee
	X1= 1.3 - 1.3 n .3 - n .3 -	No = 2.5 2 and 3.
	1+111.3-13	$\chi_1 = 2.5 - 2.5^3 - 15$
	= 3.16824	3 (2.5) 2
	× z = 2.35174	= 2:4479
	$x_3 = 2.24268$	x 2 = 2.4663
	714 = 2,23998	X3 = 2.4663
	:, x=2.24 (35.f.)	:. n = 2.466
		EXTERNATION OF THE STANF
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