	Saw L
	CC 2010 A
	CS 3010 Assignment 3
1,	f(x)= x3 +3x -1 [0,1]
	ard b=1 (C= 05 f(c)=0625
	0-0 6:0.5 (:0.25 fect= -0. 1341=75. 11)
- 1	1.0.25 B= 0.5 (0575 + F(c)= 0.1777=4375
and the same of th	8=0.75 5:0.575 (: 6.3125 fcc): -0.0319824219
	9= 0.3123 b=0.375 0=0.34375 f(c)= 0.07 14 68876)
	a: 0.3125 5=0.34375 (=0.321125 f(c)= 0.01 07 02 9110
	020315 5:0.22125 (: 0.320)125 F(L) = (0.006) 91 4062
	01- 6.5 203(25 6=0.321125 Ce 0.321121875 F(c): 0.006737411
	0.3203125 b= 0.32421075 (= 0.522205615 f(1) - 0 000205814364
)(x) = x3 - 2311x [0.5,2]
	01.0.5 b-2 c=1.25 fcm = 0.0551557613
The same	0-0.5 6=1.28 c. 0.515 feet= -0 \$ 6516512-5
	0 = 0,915 5=1,75 (=1,0615 f(c): - 0.5476569747
	0-1.0025 b=1.25 C= 1.15 (25 f(c)= -025479,4008
	01-1.15625 b=1.21 (=1.203125 +(c)=-0.1247086155
	01-1.20-3125 b= 1.25 (-1.2245675 fcc)= -0.0173598065
	a. 1.2765628 h=1.25 (-1.25828125 (-cc)=0.0082680154
	a=1.2265625 b=1.25828125 f(c)=0.0147102162
	A.1722421 175 4= 1.63124(25 1 CC)= -0.0032660148
	a: 1.235351563 6:125821125 1(c)= 0.0024860119
	9-1.255351563 b=1.236816406 quo; 0.00039147068
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5 5: 130 $f(x) = -0.13404647$ 5 5: 130 $f(x) = 0.069789606$ 5 5: 127.5 $f(x) = 0.03,080614$ 26. 25 6: 126. 875 $f(x) = -0.005669150$ 26. 5625 $f(x) = -0.006969150$ 26. 5627 $f(x) = -0.006969150$ 27. 28. 24. 40× -20 $f(x) = -0.006969150$ 28. 28. 24. 40× -10 $f(x) = -0.006969150$
5 $b = 130$ $f(c) = 0.009789606$ 5 $b = 127.5$ $f(c) = 0.03,080614$ 26.25 $b = 129.5$ $f(c) = 0.0056691.50$ 26.5625 $b = 126.875$ $f(c) = 0.006987805$ 6.5621 $b = 176.7145$ $f(c) = 0.006987805$ (6.5621 $b = 176.7145$ $f(c) = 0.0066338$ (7) $a = 38^{2} + 48 + 40$ (8) $a = 38^{2} + 48 + 40$
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$26.25 \text{ W}: 126.675 f(1) = -0.005669150$ $26.5625 b: 126.775 f(1) = 0.006967105$ $26.5621 b: 176.7145 f(1) = 0.0066334$ $1 = x^{3} + 2x^{2} + 10x - 20 \qquad x=2$ $x = 3x^{2} + 4x + 10$ $x = 3x^{2} + 4x + 10$
$26.25 \text{ W} = 126.875 f(1) = -0.005669150$ $26.5625 \text{ W} = 126.875 f(1) = 0.006987105$ $26.5621 \text{ W} = 176.7145 f(1) = 0.0066334$ $1 = 8^{3} + 2 \times^{2} + 10 \times -20 \qquad x=2$ $8 = 3 \times^{2} + 4 \times +10$ $4 = 8 \times^{2} + 4 \times +10$ $4 = 8 \times^{2} + 4 \times +10$
$\begin{array}{llllllllllllllllllllllllllllllllllll$
$1 = \frac{1}{2} \times $
$1 = x^{3} + 2x^{2} + 10x - 20 \qquad x = 2$ $x = 3x^{2} + 4x + 10$ $x = x^{3} + 2x^{4} + 10x - 1 + 40666661$
x) = 3x2+ ux +10 = yo = f(x0) - 1.440666661
x) = 3x2+ ux +10 = yo = f(x0) - 1.440666661
, = yo - f(xo) - 1.440666661
, = yo - f(xo) - 1.440666661
t(c.)
2 = V1 - F(x1) = 1.371512 04 F(x2)= 0.0570866
F(X)
=1.348410225 f(x3)= 0,000044614413
= 1.3684 08104 f(xu)= 7.4.10-11
x) = x 5 +2x + 10x-20 X = 2 X,=1
$(x) = x^{5} + 2x^{7} + (0x - 20) = x^{5} = x^{5}$ $(x) = x^{5} + 2x^{7} + (0x - 20) = x^{5} = x^{5}$ $(x) = x^{5} + 2x^{7} + (0x - 20) = x^{5} = x^{5}$
1 xe= 1,3043475'0 , m= 18.617
= 1.37605362 m = 1.37605566

Results:

 $f(x) = x^3 + 3x - 1$, on [0,1]

0.32218537 9 true

0.32218537 24 true

0.32218537 4 true

0.32218537 8 true

 $f(x) = x^3 + 2x^2 + 10x - 20$, starting with $x_0 = 2$ and $x_1 = 1$.

1.3688082 9 true

1.3688082 23 true

1.3688082 4 true

1.3688082 12 true

 $3x^3 + 5x^2 - 7$

0.94518006 9 true

0.94518006 23 true

0.94518006 5 true

0.94517994 10000 false