WORD PROBLEM

1)

#	а	b	f(a)	f(b)	С	f(c)	Update	Error(%)
24	14	12.18	93088	-4917e-06	12.18	-1.984e-06	b=c	7.892e-10

```
FalsePositionMethod (f,
a b f(a) f(b)
14 12 93088 -5198
14 12.11 93088 -2214
14 12.15 93088 -913.8
14 12.17 93088 -372.2
14 12.18 93088 -150.7
14 12.18 93088 -60.93
14 12.18 93088 -24.6
14 12.18 93088 -9.931
14 12.18 93088 -9.931
14 12.18 93088 -1.018
                                                                                                                                                                                                                                                                                                                                                                                                  verbose);
Update Error(%)
"b = c" NA
"b = c" 0.3623
"b = c" 0.1478
"b = c" 0.05993
"b = c" 0.02423
"b = c" 0.00395
"b = c" 0.00395
"b = c" 0.001594
"b = c" 0.0002597
"b = c" 0.0001048
"b = c" 0.0001048
"b = c" 4.229e-05
"b = c" 1.707e-05
                                                                                                                                                                                                                                                                                                        f(c)
                                                                                                                                                                                                                                                          12.11 -2214
                                                                                                                                                                                                                                                        12.15 -913.8
12.17 -372.2
                                                                                                                                                                                                                                                        12.18 -150.7
                                                                                                                                                                                                                                                      12.18 -60.93
12.18 -24.6
                                                                                                                                                                                                                                                      12.18 -9.931
12.18 -4.008
                                                                                                                                                                                                                                                        12.18 -1.618
   9 14 12.18 93088 -4.008 12.18 -0.6528 10 14 12.18 93088 -0.6528 12.18 -0.6528 11 14 12.18 93088 -0.6528 12.18 -0.2635 12 14 12.18 93088 -0.2635 12.18 -0.1063 13 14 12.18 93088 -0.1063 12.18 -0.04291 14 14 12.18 93088 -0.04291 12.18 -0.01732 15 14 12.18 93088 -0.01732 12.18 -0.006988 16 14 12.18 93088 -0.006988 12.18 -0.006988 17 14 18 93088 -0.006988 12.18 -0.00688
function(x) -26 + 85 * x - 91 * x ^ 2 - 44 * x ^ 3 - 8 * x ^ 4 + x ^ 5 
  <br/>
<br/
      $given_a [1] 14
        $given_b
        [1] 12
    $c
[1] 12.18
        $iterations
      [1] 24
    $ea
[1] 7.892e-10
```

;	#	х0	x1	f(x0)	f(x1)	x	f(x)	Error(%)
3	30	157.8	157.8	4.672e-05	5.778e-08	157.8	1.702e-12	1.223e-10

```
x f(x)
-0.02321 -0.4834
-1.226 -2.745
0.234 -0.2747
0.3964 -0.2119
0.9447 -0.505
                                                                                                                                                                                                                  f(x1)
-1.698
-0.4834
-2.745
-0.2747
-0.2119
-0.5058
-0.4588
-1.809
                                                                                                                                                 f(x0)
              1 -0.02321 -0.4834 -0.02324 -2.745 -2.24 -2.745 -2.24 -2.745 -2.24 -2.747 -2.24 -2.24 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 -2.247 
                                                                                    3 -0.5747
-0.02321 -1.698
-1.226 -0.4834
0.234 -2.745
0.3964 -0.2747
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0.9447 -0.5058
0.000913 -0.4588
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58.04
              0.234
0.3964 0.9447
0.9447 0.00091
0.000913 -9.207
9.207 3.131
-26.45
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3.131
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-1.183
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9 -9.207
10 3.131
11 26.45
12 171.7
13 191.9
14 170.2
15 162.6
16 172
17 178.4
18 210.9
19 157.8
20 159.1
21 157.9
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10.53
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-1.891
-0.4954
-2.691
-1.097
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171.7
191.9
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-0.4954
-2.691
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-1.891
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162.6
                                                                                  170.2
162.6
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5.473
                                                                                                                                              -1.891
-0.4954
-2.691
-1.097
-0.9147
-2.355
0.06071
                                                                                                                                           -0.4954 -2.691 172
-2.691 -1.097 178.4
-1.097 -0.9147 210.9
-0.9147 -2.355 157.8
-2.355 0.06071 159.1
0.06071 -1.069 157.9
-1.069 -0.04424 157.8
-0.04424 0.6246 157.9
0.6246 -1.07 157.8
-1.07 0.6841 157.8
-1.07 0.6841 157.8
-1.024 -0.2769 157.8
-0.2769 0.4789 157.8
-0.4789 0.03721 157.8
-0.007066 4.762e-05 157.8
-0.007066 4.762e-05 157.8
                                                                                                                                                                                                                                                                                                                                                     -0.9147
-2.355
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15.41
33.67
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178.4
                                                                                210. 9
157. 8
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-0.04424
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0.8005
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0.6841
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-0.2769
0.4789
                                                                                                                                                                                                                                                                                                                                                                                                                          0.007947
                                                                                                                                                                                                                                                                                                                                                                                                                        0.004765
                                                                                                                                                                                                                                                                                                                                                     0.03721 0.001119
-0.007066 9.427e-05
4.762e-05 1.504e-05
                                                                                                                                                                                                                                                                                                                                                     5.778e-08 1.007e-07
1.702e-12 1.223e-10
  function(x) sin(x) + cos (1 + x ^ 2) - 1
<br/>
<br/>
<br/>
<br/>
<br/>
<br/>
function(x) sin(x) + cos (1 + x ^ 2) - 1
     $given_x0
     $given_x1
    [1] 157.8
  $iterations
    [1] 30
    [1] 1.223e-10
```