

iteration	a	b	c	$f(a)$	$f(b)$
1	1	2	1.5	-2	1
2	1.5	2	1.75	-0.75	1
3	1.5	1.75	1.625	-0.75	0.0625
4	1.625	1.75	1.6875	-0.3594	0.0625
5	1.6875	1.75	1.7188	<del>-0.1523</del>	<del>0.0625</del>
				-0.1523	0.0625
6	1.7188	1.75	1.7344	-0.0457	0.0625
7	1.7188	1.7344	1.7266	-0.0457	0.0081

So at the seventh iteration we get the interval  $[1.7266, 1.7344]$   
 $\therefore 1.7344$  is the approximate solution