

$\sqrt{2}=1.414213562373$  근사과정

$a = 2, x_0 = 1, \varepsilon = 10^{-6}$

	$x_n = 1/2 (x_{n-1} + 2/x_{n-1})$	$(x_n^2 - 2)/2$
$x_0$	1.000000000000	-0.5
$x_1$	1.500000000000	0.1
$x_2$	1.416666666667	0.003
$x_3$	1.414215686275	0.000003
$x_4$	1.414213562375	0.000000000002