Solution 23.1

	X	f(x)
<i>X</i> _{i□2}	0.261799388	0.965925826
<i>x_i</i> □1	0.523598776	0.866025404
Xi	0.785398163	0.707106781
<i>X</i> _{i+1}	1.047197551	0.5
<i>X</i> _{i+2}	1.308996939	0.258819045

true =
$$-\sin(\pi/4) = -0.70710678$$

The results are summarized as

	first-order	second-order
Forward	□0.79108963	□0.72601275
	□11.877%	□2.674%
Backward	□0.60702442	□0.71974088
	14.154%	□1.787%
Centered	□0.69905703	□0.70699696
	1.138%	0.016%