

	6
Successive Parabolic Interpolation	
Pseudocode:	6
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# of iterations input error to because	6
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-pick 3, x values in the interval [0,2],	6
χ_1,χ_2,χ_3	6
-est initial error, err = x3-x1	6
-initialize # of iterations, N=0	9
while err > tol	-
run until error & tolerance	
to each x-value using function	6
$f(x) = 0.5 - xe^{-x^2}$	6
· use formula $A = inv(x^2, x, 1) */y.$	6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6
$\left[\left[x_3^2 x_3 \right] \right] \left[y_3 \right]$	6
to find the a,b,c vals such that:	-
$ax^2 + bx + c = u \cdot \int creater a parabola$	-
ax2 + bx2+c= 42 + that goes through	5
$a x_3^2 + b x_3 + c = u_3 (x_1, y_1), (x_2, y_2), (x_3, y_3)$	6
- find the minimum of the pasabola:	03
$\chi_{p} = -b$	6
20	•
· redefine pts, & replace x, w/ xp:	•
$x_3 = x_2$ $x_2 = x_3$	•
$\chi_1 = \chi_p$	

recalculate error error 1x=-x.
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· recalculate error, err= 1x3-x, 1 · add to the # of iterations, N=N+1
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- find the approx minimum
-find the approx minimum min = $\frac{x_1 + x_2 + x_3}{3}$
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end function
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