

**CP.1.5.3, Sauer3****Langou**

Use Inverse Quadratic Interpolation to find the (single) solution of each of the following equations. Use initial guesses  $x_0 = 1$ ,  $x_1 = 2$ ,  $x_2 = 0$ , and update by retaining the three most recent iterates.

a.  $x^3 = 2x + 2$

b.  $e^x + x = 7$

c.  $e^x + \sin x = 4$