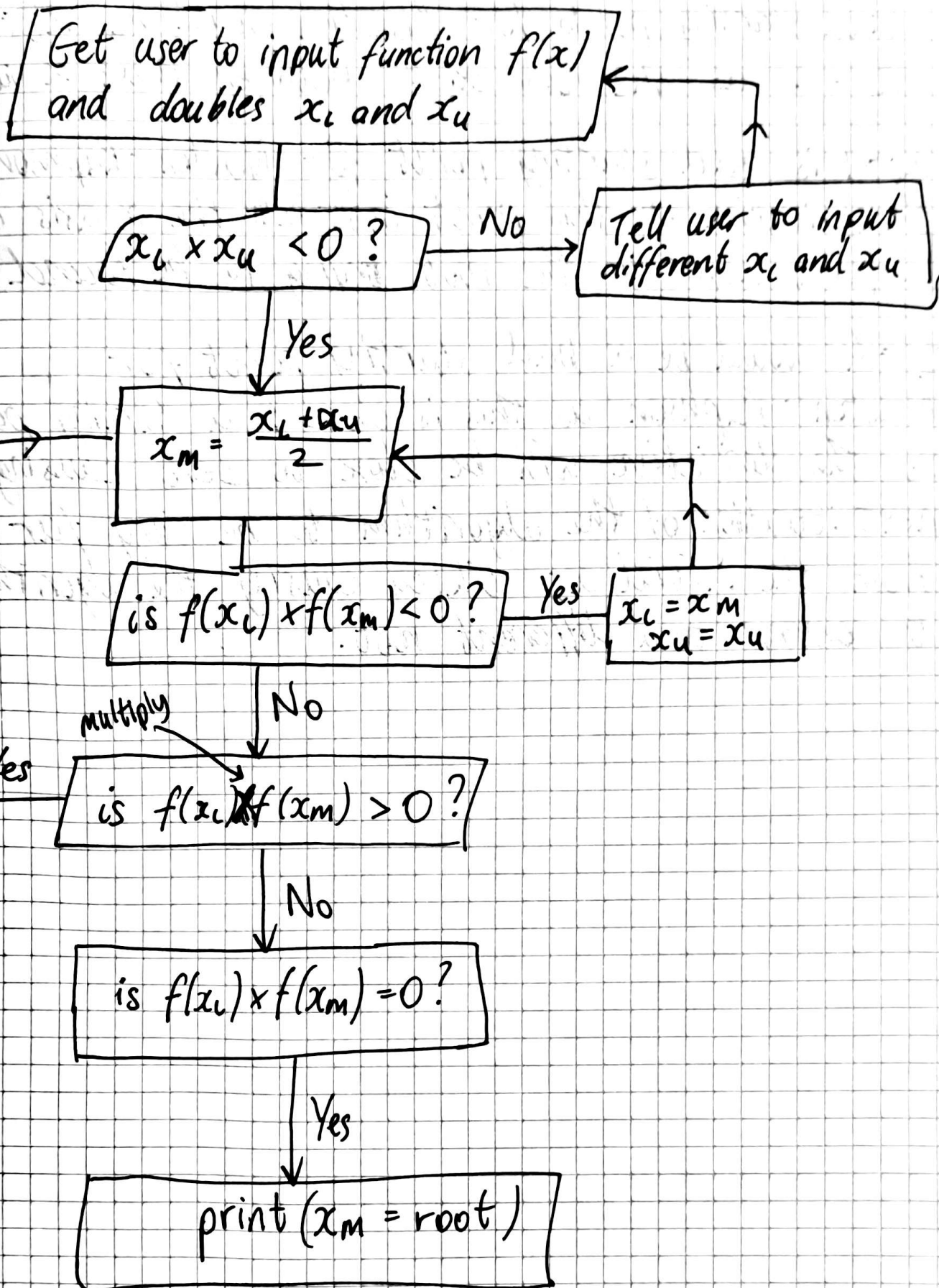
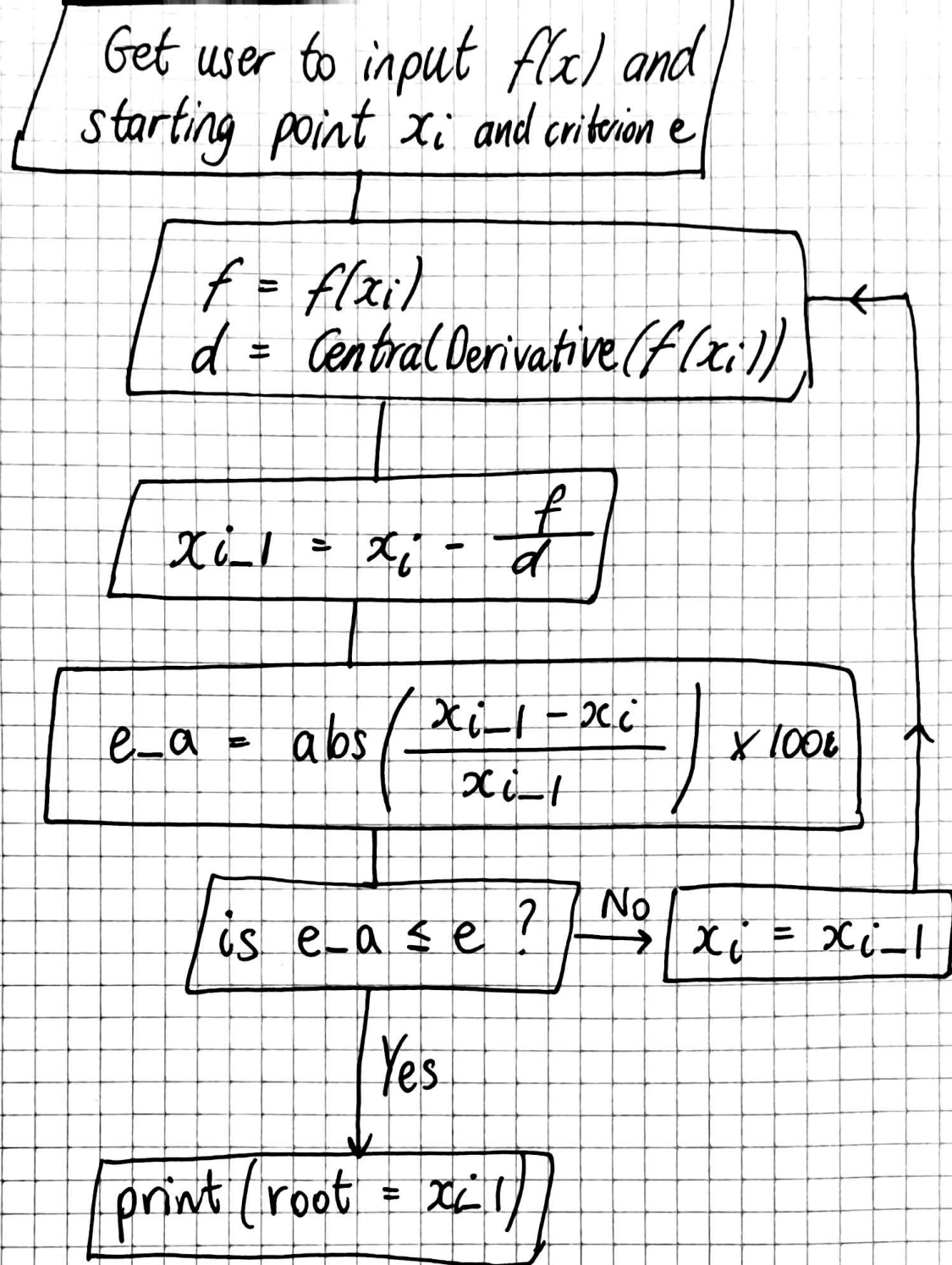


1. a)



1. a)



Good starting points for Bisection would be  $x_l = 1$   
 $x_r = 2$  as the root exists between these  $x$  values.

$x_i = 1$  is good starting point for Newton-Raphson as the derivative at this point intersects the  $x$  axis at a point closer to the root trying to be found

$x_i = 4$  would be a bad starting point for Newton-Raphson as this is close to a turning point so the derivative will be close to zero causing the next iteration of the algorithm to be very far from the initial  $x_i$  likely causing the algorithm to converge to a different root.