
Newton-Raphson solver

By: Noe Lepez Da Silva Duarte Date: 02 Feb. 2022

```
function [x_n, iter, E_arr] = Newt_Raph(x0, error, func, func_prime)

iter = [];
E_arr = [];
x_p = x0;
Ea = 1;

while(Ea >= error)
    % Compute new solution.
    x_n = x_p - func(x_p)/func_prime(x_p);

    % Compute current solution tolerance.
    Ea = abs(x_n-x_p);

    % Update Solutions
    x_p = x_n;
    iter = [iter, x_n];
    E_arr = [E_arr Ea];
end
end
```

Not enough input arguments.

Error in Newt_Raph (line 9)
x_p = x0;

Published with MATLAB® R2021b