```
Algorithm 3: Newton-Raphson method
Data: x, N, \delta, \epsilon
Result: Root
k = 0, f = f(x);
while k < N do
   df = f'(x);
   e = -f/df;
    x = x + e;
    f = f(x);
    if |e| < |x|\epsilon or |f| < \delta then
        Return x;
    end
    k = k + 1;
end
```