NEWTON- RAPHS ON METHOD

continuous, différentiable funct. Let f(n) be a y= f(n)

(Slope= f'(2n))

Nn+1 Nn Draw a Tangent line to the graph of f(n) at a chosen point (xo, f(no)) Let the tangent out the n-axis at x

xy is given by; xy = xo - f(xo) f'(xo)

Naw a Tangent at (24, f(24)) which meets the x-axis at 2/2

Repeet this procedure till me reach the root of the curve or the desired accuracy.

In general, for any n-value 2m, 2m+1 (next value) is given by: $2m+1 = 2m - \frac{f(2m)}{f(2m)}$

ALGORITHM

head no, eps, n

for i=1 to n

if | off(no)) | < eps print " method Fails" exit

21 - no - f(no)
d(f(no))

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