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| METODO | IF (metodo non applicabile) | CONDIZIONI DEL WHILE | k-esimo ITERATO | AGGIORNAMENTI |
| **Bisezione** | sign(fa) \* sign (fb) >= 0 | abs (b – a) > tolx | xk = a + (b+a) / 2 | Intervallo:  a = xk, fa = fxk  b = xk, fb = fxk |
| **Regula Falsi** | sign(fa) \* sign (fb) >= 0 | it < maxit and abs (b – a) > tolx and abs (fb -f | xk = a – fa \* (b -a) / (b – a) | Intervallo:  a = xk, fa = fxk  b = xk, fb = fxk |

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| METODO | CONDIZIONI IF | fx0 | d | CONDIZIONI DEL WHILE | x1 |
| **Corde** | non ci sono | fname(x0) | fx0 / m | it < nmax  and abs(fx1) >= tolf  and abs(d) >= tolx\*abs(x1) | x0 - d |
| **Secanti** | non ci sono | fxm1=fname(xm1)  fx0=fname(x0) | fx0\*(x0-xm1) / (fx0-fxm1) | Già scritte dalla prof | x0 - d |
| **Newton** | abs (fpname(x0)) <= np.spacing(1) | fname(x0) | d = fx0 / fpname(x0) | it < nmax and abs(d) >= tolx \* abs(x1) and abs(fx1) >= tolf | x0 - d |
| **Newton modificato** | abs(fpname(x0) ) <= np.spacing(1) | fname(x0) | Fx0 / fpname(x0) | it < nmax and abs(d) >= tolx \* abs(x1) and abs(fx1) >= tolf | x0 – m\*d |

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| METODO | if | s | x1 | while |
| **Newton-Raphson** | npl.det(matjac) == 0 | -npl.solve (matjac, fun(x0)) | x0 + s | it <= nmax  and npl.norm (fx1, 1) >= tolf  and npl.norm (s, 1) >= tolx \* npl.norm (x1, 1) |
| **Newton Shamanski**  (jacobiano rivalutato ogni m iterazioni => matjac = jac(x0) ) | npl.det(matjac) == 0 | -npl.solve (matjac, fun(x0)) | x0 + s | it <= nmax  and npl.norm (fx1, 1) >= tolf  and np.linalg.norm (s, 1) >= tolx \* np.linalg.norm (x1, 1) |
| **Newton corde**  (jacobiano fisso) | npl.det(matjac) == 0 | -npl.solve (matjac, fun(x0)) | x0 + s | it <= nmax  and npl.norm (fx1, 1) >= tolf  and npl.norm (s, 1) >= tolx \* npl.norm (x1, 1) |
| **Newton minimo** (derivate parziali ed hessiano SENZA SIMPY) | 1. Calcolo hessiano con Hess(x0)  2. if npl.det(matHess) == 0: | - npl.solve (matHess, gradiente(x0)) | x0 + s | it <= nmax  and np.linalg.norm (grad\_fx1, 1) >= tolf  and npl.norm (s, 1) >= tolx \* np.linalg.norm (x1, 1) |
| **Newton minimo** (derivate parziali ed hessiano CON SIMPY) |  |  |  |  |