IF05-2016 -> Paper II 5)(C) Dovelor an algorithm for Newton-Raphson method to solve $\phi(x) = 0$ starting with initial iterate x_0, n be the number of iterations allowed, e.ps be the prescribed relative error and delta be the prescribed lower bound for o'(x). > Algorithm => Step1: start. Step 2: read xo, eps, n, delta step 3: for i=1 ton. Step 4: $\phi_0 \leftarrow \phi(x_0)$ $5tp 5: \phi'_0 \leftarrow \phi'(x_0)$ Step 6: if 1001 < della then goto 12. Step 7: x < x - (\$\phi_0 / \phi_0') step 8% if 1(x1-x2)/x1/2eps then gots 14 step 9: xo ← xy step 10: Write "Does not Converge in n iteration" slep 11: stop Step 12: write "slope too small", xo, fo, fo, i Step 13: Stop step 14: write Convergent solution", \$ x, f(x) i Step 15: Step