GD: XR+1 = XR - & Of(XR) PL: \frac{1}{2} || \frac{1}{2} || \frac{1}{2} \pi \left(\frac{1}{2})||^2 \geq \pi \left(\frac{1}{2}) - \frac{1}{2} \right) assume: f is L- Leipselitz f(xe) = f(xe) + ( of(xe), xen-xe) + = 11xen-xe112 (f(xex) -f(xe) ≤ - 1/2 | 1 | \( f(x) - f^\* \) f(xe+)-f\* < (1-m)(f(xe)-f\*) < (1-m)-c