(a) y'=f(t,y) $h=t_j-t_{j-1} \ge k=t_{j+1}-t_{j-1}$ y(tn+1) = y(+n+1) + f (s.ym)d, Simpon's Rube $\int_{t_{n-1}}^{t_{n+1}} f(s,y(s)) ds = \frac{h}{6} [f(t_{n+1},y(t_{n-1})) + f(t_{n+1},y(t_{n})) + f(t_{n+1},y(t_{n+1})) + f(t_{n+1$ global error is 1 b) y(tati) = y(ta+1) + fta+1 f(s, y(s) di) that f(s, y(s))ds = 2hf(th, y(th))+0 (hs) y (tath & y (ta+1) T2 hf tay (ta)/t O(hs) So truncation error is Q(h3)